



TITLE V OPERATING PERMIT

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

Title V Permit Number	189 – 0157 - TV
Client/ Sequence /Town/Premises Numbers	6590-001-189-0178
Date Issued	December 9, 2003
Expiration Date	December 8, 2008

Corporation:

Covanta Projects of Wallingford, L.P./
CRRA – Wallingford Resource Recovery Facility

Premises location:

530 South Cherry St, Wallingford, Connecticut 06492

Name of Responsible Official and Title:

Brian Keefe, Covanta Facility Manager
Floyd Gent, CRRA Director of Operations

All pages 1 through 70, inclusive, of this document are hereby incorporated by reference into this Title V Operating Permit.

ARTHUR J. ROCQUE, JR.
Arthur J. Rocque, Jr.
Commissioner

12/9/03
Date

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LIST OF ACRONYMS

ACRONYMDESCRIPTION

°F	Degrees Fahrenheit
ACFM	Actual Cubic Feet per Minute
ASC	Actual Stack Concentration
CAAA	Clean Air Act Amendments of 1990
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CGS	Connecticut General Statutes
CO	Carbon Monoxide
CO ₂	Carbon Dioxide
DEP	Department of Environmental Protection
EMU	Emissions Unit
EPA	Environmental Protection Agency
FT ²	Square Feet
GAL	Gallon
GEMU	Grouped Emissions Units
HAP	Hazardous Air Pollutant
HLV	Hazard Limiting Value
HR	Hour
LB	Pounds
M ³	Cubic Meters
MASC	Maximum Allowable Stack Concentration
MACT	Maximum Achievable Control Technology
MIN	Minutes
MSDS	Material Safety Data Sheet
MSW	Municipal Solid Waste
MWC	Municipal Waste Combustor
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
O ₂	Oxygen
P	Permit
PM	Particulate Matter
PM-10	Particulate Matter less than 10 microns
PSIG	Pounds per Square Inch (gage)
R	Registration
RCSA	Regulations of Connecticut State Agencies
RMP	Risk Management Plan
SCFM	Standard Cubic Feet per Minute
SO ₂	Sulfur Dioxide
SNCR	Selective Non-Catalytic Reduction
TPY	Tons per 12 Consecutive Months
µg/m ³	Micrograms per cubic meter
VOC	Volatile Organic Compound

Title V Operating Permit

All conditions in Sections III, IV, VI and VII of this permit are enforceable by both the Administrator and the Commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, VI and VII of this permit in accordance with the Clean Air Act (CAA), as amended.

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: Resource Recovery Facility

Primary SIC: 4953

Facility Mailing Address: Covanta Projects of Wallingford, L.P./CRRA - Wallingford Resource Recovery Facility

530 South Cherry Street
Wallingford, CT 06492

Telephone Number: (203) 294-1649

B. PREMISES DESCRIPTION

The Wallingford Resource Recovery Facility (WRRF) is owned and operated by Covanta Projects of Wallingford, L.P. and CRRA. The facility consists of three (3) Enercon stepped, fixed refractory hearth, 140 TPD, multiple chamber, mass fired municipal solid waste (MSW) furnaces with Zurn waste heat boilers. The facility includes a turbine generator with a nameplate capacity of 10.8 megawatts. Electrical power is distributed to the Connecticut Light & Power's electrical network. There are no active DEP orders. The 3 furnace/boilers are subject to the Federal Plan Requirements for Small Municipal Waste Combustion Units in 40 CFR Part 62 Subpart JJJ, until the Connecticut Plan is approved by EPA and in effect.

Furnaces:

The three (3) Enercon Furnaces/Zurn Boilers (GEMU 1: EMU 1, 2 and 3) combust MSW to produce steam which is used to generate electricity. Air emissions are controlled by good combustion control within the furnace/boiler, a spray dryer absorber, followed by a four-compartment fabric filter. Mercury emissions are controlled with a powdered activated carbon injection system. The system involves the storage and injection of activated carbon into the lime slurry tank, which then feed the mixture of lime slurry and carbon to the spray dryer absorber. Each furnace/boiler is also equipped with continuous emission monitors to monitor opacity, SO₂, NO_x and CO. The furnace/boilers were issued construction permits 189-0061, 189-0062 and 189-0063 on April 4, 1986. The permits to operate were modified concurrent with the Title V permit.

Lime Silo:

A lime silo (EMU-4) stores lime used in the spray dryer absorbers. It is equipped with a baghouse for particulate matter control. This is an insignificant activity.

Ash Handling System:

The Ash Handling System (EMU-5) consists of two (2) four-foot wide by four-foot deep water troughs, which seal to the bottom ash discharge of each combustor and collect the bottom and fly ash. A conveyor removes the quenched ash from the trough and deposits it into a truck for disposal. A permit is not required.

Section II: Emissions Units Information

A. EMISSIONS UNITS INFORMATION

Emission units are set forth in Table II.A.1.

TABLE II.A.1: EMISSIONS UNITS DESCRIPTION			
Emissions Units	Emissions Unit Description	Control Unit Description	NSR Permit, Order, or Registration Number*
EMU-001, 2 & 3	3 Enercon stepped, fixed refractory hearth, 140 TPD, multiple chamber, mass fired municipal solid waste (MSW) furnaces with Zurn waste heat boilers	Spray Dryer Absorber Fabric Filter Powdered Activated Carbon Injection System	P 189-0061 P 189-0062 P 189-0063
EMU-004	Lime silo	Baghouse	None
EMU-005	Ash handling system	None	None

(*) It is not intended to incorporate by reference these NSR Permits, Orders, or Registrations into this Title V Operating Permit.

Section II: Emissions Units Information

A. EMISSIONS UNITS INFORMATION, continued

The Permittee shall be allowed to operate under the following Standard Operating Scenario without notifying the Commissioner, provided that such operations are explicitly provided for and described in the table below. There are no Alternate Operating Scenarios for the premises.

TABLE II.A.2: OPERATING SCENARIO IDENTIFICATION	
Emissions Units Associated with the Scenarios	Description of Scenarios
EMU-001, 2 & 3	The standard operation of the furnace/boilers is the combustion of MSW to produce steam, which in turn is used to generate electricity.
EMU-004	The standard operation of the lime silo is to store lime used in the spray dryer absorbers.
EMU-005	The standard operation of the ash handling system is to collect the bottom ash from each combustor and the fly ash from the baghouses, The ash is quenched in water troughs and conveyed to the ash handling building where it is loaded onto trucks for removal from the facility.

Section III: Applicable Requirements and Compliance Demonstration

The following tables contain summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario regulated by this permit.

A. EMISSIONS UNITS EMU-001, EMU-002 and EMU-003

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003	
Pollutants or Process Parameters	Compliance Demonstration Requirements
1. MSW combusted	<p><u>Limitations or Restrictions</u> The maximum MSW Processing Rate (tons per calendar year) is 51,100 tons of MSW for each furnace/boiler. [P 189-0061, 62 & 63 Part II.A.1.b. & c]</p> <p>The Permittee shall monitor and record the daily charging rate and hours of operation in accordance with 40 CFR §60.53. [P 189-0061, 62 & 63 Part V.C.]</p> <p>i. <u>Monitoring and Testing Requirements</u> The Permittee shall monitor the quantity of MSW combusted for each furnace/boiler, using truck scale house weight data, adjusted for pit inventory and other waste not actually processed through the combustor. [P 189-0061, 62 & 63 Part V.A.1.]</p> <p>The Permittee shall monitor and record the daily charging rate and hours of operation in accordance with 40 CFR §60.53. [P 189-0061, 62 & 63 Part V.C.]</p> <p>ii. <u>Record Keeping Requirements</u> The Permittee shall make and keep records of the annual quantity of MSW, in tons, for each furnace/boiler. [P 189-0061, 62 & 63 Part V.A.1.]</p> <p>The Permittee shall monitor and record the daily charging rate and hours of operation in accordance with 40 CFR §60.53. [P 189-0061, 62 & 63 Part V.C.]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
2. Auxiliary Fuel Usage	<p><u>Limitations or Restrictions</u> The auxiliary fuel system is limited to #2 fuel oil, natural gas, or clean wood pallets. [P 189-0061, 62 & 63 Part II.A.2.a.]</p> <p>i. <u>Monitoring and Testing Requirements</u> The Permittee shall monitor the annual quantity of clean wood pallets combusted at the facility (and allocated to each furnace/boiler using engineering judgment or calculations), using truck scale house weight data, adjusted for pit inventory. [P 189-0061, 62 & 63 Part V.A.2.]</p> <p>The Permittee shall monitor the quantity of #2 fuel oil and natural gas used by each furnace/boiler, using either fuel purchase receipts or a non-resettable totalizing fuel meter. [P 189-0061, 62 & 63 Part V.A.3.]</p> <p>ii. <u>Record Keeping Requirements</u> The Permittee shall make and keep records of the annual quantity of clean wood pallets combusted at the facility (and allocated to each furnace/boiler using engineering judgment or calculations), using truck scale house weight data, adjusted for pit inventory. [P 189-0061, 62 & 63 Part V.A.2.]</p> <p>The Permittee shall make and keep records of the annual quantity of #2 fuel oil, in thousand gallons (MGal), and natural gas, in million cubic feet (MMCF), for each furnace/boiler. [P 189-0061, 62 & 63 Part V.A.3.]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
3. Sulfur Content	<p><u>Limitations or Restrictions</u> No person, except as provided in RCSA §22a-174-19(a)(2)(ii), (a)(3)(i), and (a)(3)(ii), shall use or burn fuel which contains sulfur in excess of a maximum of one percent (1.0%) by weight (dry basis). [RCSA §22a-174-19(a)(2)(i)]</p> <p>Maximum of 0.07% sulfur content by weight (dry basis) for auxiliary fuel. [P 189-0061, 62 & 63 Part II.A.2.b.]</p> <p>i. <u>Monitoring and Testing Requirements</u> The Permittee shall monitor the sulfur content of the #2 fuel oil burned in the three furnace/boilers, using either a fuel certification for a delivery of fuel from a bulk petroleum provider or a copy of a current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. [P 189-0061, 62 & 63 Part V.B.]</p> <p>ii. <u>Record Keeping Requirements</u> The Permittee shall make and keep records of the sulfur content of the #2 fuel oil burned in the three furnace/boilers. Records for a fuel certification or contract shall include the following information: the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [P 189-0061, 62 & 63 Part V.B.]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
4. Unit Load	<p><u>Limitations or Restrictions</u></p> <p>The design maximum MWC load is 42 Klbs/hr @ 650 psig and 750 °F for each furnace/boiler. [P 189-0061, 62 & 63 Part I.B.1.c.]</p> <p>The Permittee shall not cause or allow such unit to operate at a municipal waste combustor unit load greater than one hundred ten percent (110%) of the maximum demonstrated 4-hour average municipal waste combustor unit load, based on a 4-hour arithmetic average, measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. Municipal waste combustor unit load shall be measured by a steam flow meter. [P 189-0061, 62 & 63 Part II.A.4.]</p> <p>The Permittee may, notwithstanding Parts II.A.3 and 4 of this permit, during the annual dioxin/furan emissions performance test and for two (2) weeks prior to such test, allow temperatures in excess of that specified in Part II.A.3 of this permit and municipal waste combustor unit load limits in excess of that specified in Part II.A.4 of this permit. However, should the Permittee operate the unit at such excess temperatures and load, the Permittee shall not again be allowed to operate at such excess temperatures and load during that test period without the approval of the Commissioner should the annual dioxin/furan emission performance test be postponed. [P 189-0061, 62 & 63 Part II.A.5.]</p> <p>No owner or operator of a municipal waste combustor unit shall cause or allow such unit to operate at a municipal waste combustor unit load greater than one hundred ten percent (110%) of the maximum demonstrated 4-hour average municipal waste combustor unit load, based on a 4-hour arithmetic average, measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. Municipal waste combustor unit load shall be measured by a steam flow meter. [RCSA §22a-174-38(g)(2)]</p> <p>An owner or operator may, notwithstanding subdivisions (1) and (2) of this subsection, during the annual dioxin/furan emissions performance test and for two (2) weeks prior to such test, allow temperatures in excess of that specified in subdivision (1) of this subsection and municipal waste combustor unit load limits in excess of that specified in subdivision (2) of this subsection. However, should the owner or operator operate the unit at such excess temperatures and load, the owner or operator shall not again be allowed to operate at such excess temperatures and load during that test period without the approval of the commissioner should the annual dioxin/furan emission performance test be postponed. [RCSA §22a-174-38(g)(3)]</p> <p>You must not operate your municipal waste combustion unit at loads greater than 110 percent of the maximum demonstrated load of the municipal waste combustion unit (4-hour block average), as specified under “Definitions” (§62.15410). [40 CFR §62.15145(a)]</p> <p>The operating requirements of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15150]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
4. Unit Load, continued	<p>i. <u>Monitoring and Testing Requirements</u></p> <p>The Permittee shall install and operate continuous monitoring systems for measuring and recording unit load (i.e., steam flow meter) for each furnace/boiler. [P 189-0061, 62 & 63 Part IV.B.] Unit load shall be calculated in 4-hour block arithmetic averages. [P 189-0061, 62 & 63 Part IV.]</p> <p>The owner or operator of a municipal waste combustor shall also install, operate, calibrate and maintain continuous monitoring systems for measuring the final particulate control device inlet temperature, municipal waste combustor unit load, and the oxygen or carbon dioxide content of the flue gas at each location where carbon dioxide, sulfur dioxide or nitrogen oxide emissions are monitored. [RCSA §22a-174-38(j)]</p> <p>If your municipal waste combustion unit generates steam you must install, calibrate, maintain, and operate a steam flowmeter or a feed water flowmeter and meet five requirements: [40 CFR §62.15265]</p> <ol style="list-style-type: none"> (1) Continuously measure and record the measurements of steam in kilograms per hour (or pounds per hour). (2) Calculate your steam flow in 4-hour block averages. (3) Calculate the steam flow rate using the method in “American Society of Mechanical Engineers (ASME PTC4.1 – 1964): Test Code for Steam Generating Units, Power Test Code 4.1 –1964 (Reaffirmed 1991,” section 4. (4) Design, construct, install, calibrate, and use nozzles or orifices for flow rate measurements, using recommendations in “American Society of Mechanical Engineers Interim Supplement 19.5 on Instruments and Apparatus: Application, Part II of Fluid Meters”, 6th Edition (1971), chapter 4. (5) Before each dioxins/furans stack test, or at least once a year, calibrate all signal conversion elements associated with steam flow measurements according to the manufacturers instructions.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
4. Unit Load, continued	<p>ii. <u>Record Keeping Requirements</u></p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of all one-hour average municipal waste combustor unit load measurements. [RCSA §22a-174-38(k)(3)(E)]</p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of all 4-hour block arithmetic average municipal waste combustor unit loads. [RCSA §22a-174-38(k)(4)(D)]</p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of the calendar dates when any of the average emission rates, percent reductions, operating parameters or opacity levels are above the applicable limits, with reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]</p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of the calendar dates for which the minimum number of hours of sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have not been obtained, including reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]</p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of the times when sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have been excluded from the calculation of average emission concentrations or parameters and the reasons for excluding the data. [RCSA §22a-174-38(k)(7)]</p> <p>You must keep records of eight items. [40 CFR §62.15305]</p> <ol style="list-style-type: none"> Records of monitoring data – all 1-hour average load levels of your municipal waste combustion unit. Records of average concentrations and percent reductions. Records of exceedances. Records of minimum data. Records of exclusions. Records of drift and accuracy. Records of the relationship between oxygen and carbon dioxide. Records of calendar dates.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
4. Unit Load, continued	<p>iii. <u>Reporting Requirements</u></p> <p>The Permittee shall review all recorded CEM data daily and notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions or parametric limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: (1) For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and (2) For any other regulated air pollutant or parameter, no later than ten (10) days after such deviation commenced. [P 189-0061, 62 & 63 Part IV.D.]</p> <p>The Permittee shall report all CEM data to the Commissioner on a quarterly basis using a one (1) hour block average. [P 189-0061, 62 & 63 Part IV.E.]</p> <p>The Permittee shall submit a quarterly report to the Commissioner within thirty (30) days following the end of each calendar quarter. Each quarterly report shall include the following:</p> <ul style="list-style-type: none"> a. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter [RCSA §22a-174-38(l)(2)(A)]; b. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameters or opacity levels recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)] <p>The Permittee shall submit an annual report to the Commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include the following:</p> <ul style="list-style-type: none"> a. A list of the highest emission level recorded of sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load, and particulate matter control device inlet temperature based on data recorded for 24-hour daily geometric averages, 24-hour daily arithmetic averages, 4-hour block averages or 4-hour block arithmetic averages, as applicable, for the aforementioned pollutants; [RCSA §22a-174-38(l)(3)(A)(ii)] b. The total number of days that the minimum number of hours of data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal combustor unit load and particulate matter control device temperature data were not obtained; and [RCSA §22a-174-38(l)(3)(A)(v)] c. The total number of hours that data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal combustor unit load and particulate matter control device temperature data were excluded from the calculation of average emission concentrations or parameters. [RCSA §22a-174-38(l)(3)(A)(vi)] <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
5. Pressure Drop	<p>i. <u>Monitoring and Testing Requirements</u> The Permittee shall install and operate continuous monitoring systems for measuring and recording pressure drop across air pollution control devices. [P 189-0061, 62 & 63 Part IV.B.]</p> <p>ii. <u>Record Keeping Requirements</u> The Permittee shall make and keep records of the pressure drop across each air pollution control device. [P 189-0061, 62 & 63 Part IV.B.] The averaging time for pressure drops is a one (1) hour block average. [P 189-0061, 62 & 63 Part IV.E.]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Inlet Gas Temperature of Baghouse	<p><u>Limitations or Restrictions</u></p> <p>The Permittee shall not cause or allow such unit to operate at a temperature, measured at each particulate control device inlet, more than seventeen (17) degrees centigrade, based on a 4-hour arithmetic average, above the maximum demonstrated particulate control device temperature measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. [P 189-0061, 62 & 63 Part II.A.3.]</p> <p>The Permittee may, notwithstanding Parts II.A.3 and 4 of this permit, during the annual dioxin/furan emissions performance test and for two (2) weeks prior to such test, allow temperatures in excess of that specified in Part II.A.3 of this permit and municipal waste combustor unit load limits in excess of that specified in Part II.A.4 of this permit. However, should the Permittee operate the unit at such excess temperatures and load, the Permittee shall not again be allowed to operate at such excess temperatures and load during that test period without the approval of the Commissioner should the annual dioxin/furan emission performance test be postponed. [P 189-0061, 62 & 63 Part II.A.5.]</p> <p>No owner or operator of a municipal waste combustor unit shall cause or allow such unit to operate at a temperature, measured at each particulate control device inlet more than seventeen (17) degrees centigrade, based on a 4-hour arithmetic average, above the maximum demonstrated particulate matter control device temperature measured during the most recent performance test for dioxin/furan emissions for which compliance with the dioxin/furan emissions limit was achieved. [RCSA §22a-174-38(g)(1)]</p> <p>An owner or operator may, notwithstanding subdivisions (1) and (2) of this subsection, during the annual dioxin/furan emissions performance test and for two (2) weeks prior to such test, allow temperatures in excess of that specified in subdivision (1) of this subsection and municipal waste combustor unit load limits in excess of that specified in subdivision (2) of this subsection. However, should the owner or operator operate the unit at such excess temperatures and load, the owner or operator shall not again be allowed to operate at such excess temperatures and load during that test period without the approval of the commissioner should the annual dioxin/furan emission performance test be postponed. [RCSA §22a-174-38(g)(3)]</p> <p>You must not operate your municipal waste combustion unit so that the temperature at the inlet of the particulate matter control device exceeds 17°C above the maximum demonstrated temperature of the particulate matter control device (4-hour block average), as specified under “Definitions” (§62.15410). [40 CFR §62.15145(b)]</p> <p>The operating requirements of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15150)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Inlet Gas Temperature of Baghouse, continued	<p>i. <u>Monitoring and Testing Requirements</u></p> <p>The Permittee shall install and operate continuous monitoring systems for measuring and recording temperature of the flue gas stream at the inlet to the final particulate matter control device. [P 189-0061, 62 & 63 Part IV.B.] Temperature shall be calculated in 4-hour block arithmetic averages. [P 189-0061, 62 & 63 Part IV.]</p> <p>The owner or operator of a municipal waste combustor shall also install, operate, calibrate and maintain continuous monitoring systems for measuring the final particulate control device inlet temperature, municipal waste combustor unit load, and the oxygen or carbon dioxide content of the flue gas at each location where carbon dioxide, sulfur dioxide or nitrogen oxide emissions are monitored. [RCSA §22a-174-38(j)]</p> <p>You must install, calibrate, maintain, and operate a device to continuously measure the temperature of the flue gas stream at the inlet of each particulate matter control device. [40 CFR §62.15270]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Inlet Gas Temperature of Baghouse, continued	<p>ii. <u>Record Keeping Requirements</u></p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of all one-hour average particulate matter control device temperature. [RCSA §22a-174-38(k)(3)(E)]</p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of all 4-hour block arithmetic average particulate matter control device temperature. [RCSA §22a-174-38(k)(4)(D)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the calendar dates when any of the average emission rates, percent reductions, operating parameters or opacity levels are above the applicable limits, with reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the calendar dates for which the minimum number of hours of sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have not been obtained, including reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the times when sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have been excluded from the calculation of average emission concentrations or parameters and the reasons for excluding the data. [RCSA §22a-174-38(k)(7)]</p> <p>You must keep records of eight items. [40 CFR §62.15305]</p> <ol style="list-style-type: none"> Records of monitoring data – all 1-hour average flue gas temperatures at the inlet of the particulate control device. Records of average concentrations and percent reductions. Records of exceedances. Records of minimum data. Records of exclusions. Records of drift and accuracy. Records of the relationship between oxygen and carbon dioxide. Records of calendar dates.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
6. Inlet Gas Temperature of Baghouse, continued	<p>iii. <u>Reporting Requirements</u></p> <p>The Permittee shall review all recorded CEM data daily and notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions or parametric limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: (1) For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and (2) For any other regulated air pollutant or parameter, no later than ten (10) days after such deviation commenced. [P 189-0061, 62 & 63 Part IV.D.]</p> <p>The Permittee shall report all CEM data to the Commissioner on a quarterly basis using a one (1) hour block average. [P 189-0061, 62 & 63 Part IV.E.]</p> <p>The Permittee shall submit a quarterly report to the Commissioner within thirty (30) days following the end of each calendar quarter. Each quarterly report shall include the following:</p> <ul style="list-style-type: none"> a. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter [RCSA §22a-174-38(l)(2)(A)]; b. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameters or opacity levels recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)] <p>The Permittee shall submit an annual report to the Commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include the following:</p> <ul style="list-style-type: none"> a. A list of the highest emission level recorded of sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load, and particulate matter control device inlet temperature based on data recorded for 24-hour daily geometric averages, 24-hour daily arithmetic averages, 4-hour block averages or 4-hour block arithmetic averages, as applicable, for the aforementioned pollutants; [RCSA §22a-174-38(l)(3)(A)(ii)] b. The total number of days that the minimum number of hours of data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal combustor unit load and particulate matter control device temperature data were not obtained; and [RCSA §22a-174-38(l)(3)(A)(v)] c. The total number of hours that data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal combustor unit load and particulate matter control device temperature data were excluded from the calculation of average emission concentrations or parameters. [RCSA §22a-174-38(l)(3)(A)(vi)] <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
7. Particulate Matter	<p><u>Limitations or Restrictions</u></p> <p>The Permittee shall not emit particulate matter (PM) in excess of 27 mg/dscm corrected to 7% O₂ (dry basis). Compliance shall be determined annually based on an arithmetic average determined using all data generated in three (3) test runs, in accordance with RCSA §22a-174-38(i)(4)(A). [P 189-0061, 62 & 63 Part VII.A.1.]</p> <p>In the event that PM emissions from this equipment exceed the maximum PM emission limit, the Permittee shall immediately initiate corrective action to re-attain compliance with the limit. This equipment must however cease operation if PM emissions exceeds 46 mg/dscm corrected to 7% O₂ (dry basis).. It will be permitted to restart only after approval by the Commissioner. [P 189-0061, 62 & 63 Part VII.A.1.]</p> <p>PM is limited to 1.62 lb/hr and 7.08 TPY for each furnace/boiler. [P 189-0061, 62 & 63 Part VII. Table 1]</p> <p>No owner or operator of a municipal waste combustor for which construction commenced prior to September 20, 1994 shall cause or allow the emission of particulate matter in excess of 27 mg/dscm, corrected to 7% oxygen. [RCSA §22a-174-38(c)(1) Table 38-1]</p> <p>The emission limits and operating requirements of this section shall apply at all times except during periods of startup, shutdown or malfunction; the duration of each startup, shutdown or malfunction period shall be limited to three hours per occurrence for all MWC units. [RCSA §22a-174-38(c)(11)(A)]</p> <p>The Class 1 emission limit for existing small municipal waste combustion units for particulate matter is 27 milligrams per dry standard cubic meter measured at 7% O₂ based on a 3-run average stack test. [40 CFR Part 62 Subpart JJJ Table 2]</p> <p>The emission limits of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15165]]</p> <p>i. <u>Monitoring and Testing Requirements</u></p> <p>The Permittee shall conduct an annual performance test for particulate matter for each furnace/boiler in accordance with RCSA §22a-174-38(i). [RCSA §22a-174-38(i)(2) & (4) and 189-0061, 62 & 63 Part VIII.A.]</p> <p>Conduct initial and annual stack tests to measure the emission levels of dioxins/furans, cadmium, lead, mercury, particulate matter, opacity, hydrogen chloride, and fugitive ash. [40 CFR §62.15230] Conduct each annual stack test no later than 13 months after the previous stack test. [40 CFR §62.15240(b)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
7. Particulate Matter	<p>ii. <u>Record Keeping Requirements</u> The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with the particulate matter emission limits for each furnace/boiler in accordance with RCSA §22a-174-38(k)(10). [189-0061, 62 & 63 Part V.D.]</p> <p>For stack tests required under §62.15230 you must keep records of four items: [40 CFR §62.15300]</p> <ol style="list-style-type: none"> The results of the stack tests for particulate matter recorded in the appropriate units of measure specified in tables 2 and 4 of this subpart. Test reports including supporting calculations that document the results of all stack tests. The maximum demonstrated load of your municipal waste combustion units and maximum temperature at the inlet of your particulate matter control device during all stack tests for dioxins/furans emissions. The calendar date of each record. <p>iiii. <u>Reporting Requirements</u> The Permittee shall submit reports to the Commissioner of all required performance tests. [189-0061, 62 & 63 Part V.K.]</p> <p>The Permittee shall submit an annual report to the Commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride, and fugitive ash emission levels achieved during all initial and annual performance tests. [RCSA §22a-174-38(l)(3)(A)(i)]</p> <p>The MWC owner or operator shall provide written notification to the Commissioner within seventy-two (72) hours of the time at which such owner or operator receives information regarding performance test results indicating that any particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride or fugitive ash emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)]</p> <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
8. Opacity	<p><u>Limitations or Restrictions</u></p> <p>Maximum Opacity: 10 percent, based on a 6-minute arithmetic average. Compliance shall be determined by CEM. [P 189-0061, 62 & 63 Part VII.A.2.]</p> <p>No owner or operator of a municipal waste combustor for which construction commenced prior to September 20, 1994 shall cause or allow opacity in excess of 10%. [RCSA §22a-174-38(c)(1) Table 38-1] Continuous compliance with the opacity emission limit shall be based on a six-minute arithmetic average. [RCSA §22a-174-38(c)(5)]</p> <p>The emission limits and operating requirements of this section shall apply at all times except during periods of startup, shutdown or malfunction; for the purpose of compliance with the opacity emission limits, during each period of startup, shutdown or malfunction, the opacity limits shall not be exceeded during more than five (5) 6-minute arithmetic average measurements. [RCSA §22a-174-38(c)(11)(B)]</p> <p>The Class 1 emission limit for existing small municipal waste combustion units for opacity is 10 percent based on thirty 6-minute averages. [40 CFR Part 62 Subpart JJJ Table 2]</p> <p>The emission limits of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15165]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
8. Opacity	<p>i. <u>Monitoring and Testing Requirements</u> The Permittee shall install and operate continuous emission monitoring systems to monitor opacity of emissions discharged into the atmosphere from each furnace/boiler. [RCSA §22a-174-38(j) and P 189-0061, 62 & 63 Part IV.B.]</p> <p>You must install, calibrate, maintain, and operate a continuous opacity monitoring system. [40 CFR §62.15215(a)]</p> <p>Conduct initial and annual stack tests to measure the emission levels of dioxins/furans, cadmium, lead, mercury, particulate matter, opacity, hydrogen chloride, and fugitive ash. [40 CFR §62.15230] Conduct each annual stack test no later than 13 months after the previous stack test. [40 CFR §62.15240(b)]</p> <p>ii. <u>Record Keeping Requirements</u> The owner or operator of a municipal waste combustor unit shall maintain records of all six-minute arithmetic average opacity levels. [RCSA §22a-174-38(k)(3)(A)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the calendar dates when any of the average emission rates, percent reductions, operating parameters or opacity levels are above the applicable limits, with reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the calendar dates for which the minimum number of hours of sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have not been obtained, including reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the times when sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have been excluded from the calculation of average emission concentrations or parameters and the reasons for excluding the data. [RCSA §22a-174-38(k)(7)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of daily calibrations and quarterly accuracy determinations for opacity, sulfur dioxide, nitrogen oxides, carbon monoxide and oxygen or carbon dioxide continuous emission monitoring systems. [RCSA §22a-174-38(k)(8)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
8. Opacity, continued	<p>ii. <u>Record Keeping Requirements</u></p> <p>For stack tests required under §62.15230 you must keep records of four items: [40 CFR §62.15300]</p> <ul style="list-style-type: none"> a. The results of the stack tests for opacity recorded in the appropriate units of measure specified in tables 2 and 4 of this subpart. b. Test reports including supporting calculations that document the results of all stack tests. c. The maximum demonstrated load of your municipal waste combustion units and maximum temperature at the inlet of your particulate matter control device during all stack tests for dioxins/furans emissions. d. The calendar date of each record. <p>You must keep records of eight items. [40 CFR §62.15305]</p> <ul style="list-style-type: none"> a. Records of monitoring data – all 6-minute average levels of opacity. b. Records of average concentrations and percent reductions. c. Records of exceedances. d. Records of minimum data. e. Records of exclusions. f. Records of drift and accuracy. g. Records of the relationship between oxygen and carbon dioxide. h. Records of calendar dates.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
8. Opacity, continued	<p>iii. <u>Reporting Requirements</u></p> <p>The Permittee shall review all recorded CEM data daily and notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions or parametric limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: (1) For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and (2) For any other regulated air pollutant or parameter, no later than ten (10) days after such deviation commenced. [P 189-0061, 62 & 63 Part IV.D.]</p> <p>The Permittee shall report all opacity data to the Commissioner on a quarterly basis using a 6-minute block average. [P 189-0061, 62 & 63 Part IV.E.]</p> <p>The Permittee shall submit a quarterly report to the Commissioner within thirty (30) days following the end of each calendar quarter. Each quarterly report shall include the following</p> <ul style="list-style-type: none"> a. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter [RCSA §22a-174-38(1)(2)(A)]; b. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameters or opacity levels recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(1)(2)(B)] <p>The Permittee shall submit an annual report to the Commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride, and fugitive ash emission levels achieved during all initial and annual performance tests. [RCSA §22a-174-38(1)(3)(A)(i)] Each annual report shall include the highest six-minute average opacity level measured. [RCSA §22a-174-38(1)(3)(A)(iii)]</p> <p>The MWC owner or operator shall provide written notification to the Commissioner within seventy-two (72) hours of the time at which such owner or operator receives information regarding performance test results indicating that any particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride or fugitive ash emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(1)(6)]</p> <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
9. SO ₂	<p><u>Limitations or Restrictions</u></p> <p>The Permittee shall not emit sulfur oxides (expressed as sulfur dioxide (SO₂)) in excess of 29 ppmvd corrected to 7% O₂ (dry basis) based on a 24-hr daily geometric average of the hourly arithmetic averages or a 75% reduction by weight or volume, whichever is less stringent. Compliance shall be determined by CEM. [P 189-0061, 62 & 63 Part VII.B.]</p> <p>SO₂ is limited to 4.62 lb/hr and 20.22 TPY for each furnace/boiler. [P 189-0061, 62 & 63 Part VII. Table 1]</p> <p>No owner or operator of a municipal waste combustor for which construction commenced prior to September 20, 1994 shall cause or allow the emission of sulfur dioxide in excess of 29 parts per million by volume (ppmvd) corrected to 7% oxygen, or 75% reduction by weight or volume. [RCSA §22a-174-38(c)(1) Table 38-1]</p> <p>The emission limits and operating requirements of this section shall apply at all times except during periods of startup, shutdown or malfunction; the duration of each startup, shutdown or malfunction period shall be limited to three hours per occurrence for all MWC units. [RCSA §22a-174-38(c)(11)(A)]</p> <p>The Class 1 emission limit for existing small municipal waste combustion units for sulfur dioxide is 31 parts per million by dry volume measured at 7% O₂ based on a 24-hour daily block geometric average concentration or a 75% reduction of potential sulfur dioxide emissions. [40 CFR Part 62 Subpart JJJ Table 2]</p> <p>The emission limits of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15165]</p> <p>i. <u>Monitoring and Testing Requirements</u></p> <p>The Permittee shall install and operate continuous emission monitoring systems to monitor sulfur dioxide (SO₂) for each furnace/boiler. [RCSA §22a-174-38(j) and P 189-0061, 62 & 63 Part IV.A.]</p> <p>You must install, calibrate, maintain, and operate continuous emission monitoring systems for oxygen (or carbon dioxide), sulfur dioxide, and carbon monoxide. If you operate a Class I municipal waste combustion unit, also install, calibrate, maintain, and operate a continuous emission monitoring system for nitrogen oxides. Install the continuous emission monitoring system sulfur dioxide, nitrogen oxides, and oxygen (or carbon dioxide) at the outlet of the air pollution control device. [40 CFR §62.15175(a)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
9. SO ₂ , continued	<p>ii. <u>Record Keeping Requirements</u></p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of all one-hour average sulfur dioxide emission concentrations or all one-hour average sulfur dioxide reduction efficiency levels. [RCSA §22a-174-38(k)(3)(B) & (C)]</p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of all 24-hour daily geometric average sulfur dioxide emission concentrations and all 24-hour daily geometric average percent reductions in sulfur dioxide emissions. [RCSA §22a-174-38(k)(4)(A)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the calendar dates when any of the average emission rates, percent reductions, operating parameters or opacity levels are above the applicable limits, with reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the calendar dates for which the minimum number of hours of sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have not been obtained, including reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the times when sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have been excluded from the calculation of average emission concentrations or parameters and the reasons for excluding the data. [RCSA §22a-174-38(k)(7)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of daily calibrations and quarterly accuracy determinations for opacity, sulfur dioxide, nitrogen oxides, carbon monoxide and oxygen or carbon dioxide continuous emission monitoring systems. [RCSA §22a-174-38(k)(8)]</p> <p>You must keep records of eight items. [40 CFR §62.15305]</p> <ol style="list-style-type: none"> a. Records of monitoring data – all 1-hour average concentrations of sulfur dioxide emissions. b. Records of average concentrations and percent reductions. c. Records of exceedances. d. Records of minimum data. e. Records of exclusions. f. Records of drift and accuracy. g. Records of the relationship between oxygen and carbon dioxide. h. Records of calendar dates.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
9. SO ₂ , continued	<p>iii. <u>Reporting Requirements</u></p> <p>The Permittee shall review all recorded CEM data daily and notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions or parametric limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: (1) For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and (2) For any other regulated air pollutant or parameter, no later than ten (10) days after such deviation commenced. [P 189-0061, 62 & 63 Part IV.D.]</p> <p>The Permittee shall report all CEM data to the Commissioner on a quarterly basis using a one (1) hour block average. [P 189-0061, 62 & 63 Part IV.E.]</p> <p>The Permittee shall submit a quarterly report to the Commissioner within thirty (30) days following the end of each calendar quarter. Each quarterly report shall include the following:</p> <ul style="list-style-type: none"> a. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter. [RCSA §22a-174-38(l)(2)(A)] b. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameters or opacity levels recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)] <p>The Permittee shall submit an annual report to the Commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include the following:</p> <ul style="list-style-type: none"> a. A list of the highest emission level recorded of sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load, and particulate matter control device inlet temperature based on data recorded for 24-hour daily geometric averages, 24-hour daily arithmetic averages, 4-hour block averages or 4-hour block arithmetic averages, as applicable, for the aforementioned pollutants; [RCSA §22a-174-38(l)(3)(A)(ii)] b. The total number of days that the minimum number of hours of data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal combustor unit load and particulate matter control device temperature data were not obtained; and [RCSA §22a-174-38(l)(3)(A)(v)] c. The total number of hours that data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal combustor unit load and particulate matter control device temperature data were excluded from the calculation of average emission concentrations or parameters. [RCSA §22a-174-38(l)(3)(A)(vi)] <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
10. NO _x	<p><u>Limitations or Restrictions</u></p> <p>The Permittee shall not emit nitrogen oxides (NO_x), expressed as nitrogen dioxide (NO₂), in excess of 177 ppmvd corrected to 7% O₂ (dry basis) based on a 24-hr daily arithmetic average. Compliance shall be determined by CEM. [P 189-0061, 62 & 63 Part VII.C.]</p> <p>NO_x is limited to 20.25 lb/hr and 88.70 TPY for each furnace/boiler. [P 189-0061, 62 & 63 Part VII. Table 1]</p> <p>The owner or operator of any MWC shall achieve final compliance with the applicable emission limit specified in Table 38-3a of subsection (c) of this section no later than May 1, 2003 or the date of initial operation, whichever is later. [RCSA §22a-174-38(m)(5)] On and after the date specified in subsection (m) of this section, no owner or operator of a mass burn refractory combustor shall cause or allow the emission of nitrogen oxides in excess of 177 ppmvd, corrected to 7% oxygen. [RCSA §22a-174-38(c)(8) Table 38-3a]</p> <p>The emission limits and operating requirements of this section shall apply at all times except during periods of startup, shutdown or malfunction; the duration of each startup, shutdown or malfunction period shall be limited to three hours per occurrence for all MWC units. [RCSA §22a-174-38(c)(11)(A)]</p> <p>The Class 1 emission limit for existing small municipal waste combustion units for nitrogen oxides is 350 parts per million by dry volume measured at 7% O₂ based on a 24-hour daily block arithmetic average concentration. [40 CFR Part 62 Subpart JJJ Table 3]</p> <p>The emission limits of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15165)]</p> <p>i. <u>Monitoring and Testing Requirements</u></p> <p>The Permittee shall install and operate continuous emission monitoring systems to monitor nitrogen oxides as nitrogen dioxide (NO₂) for each furnace/boiler. [RCSA §22a-174-38(j) and P 189-0061, 62 & 63 Part IV.A.]</p> <p>You must install, calibrate, maintain, and operate continuous emission monitoring systems for oxygen (or carbon dioxide), sulfur dioxide, and carbon monoxide. If you operate a Class I municipal waste combustion unit, also install, calibrate, maintain, and operate a continuous emission monitoring system for nitrogen oxides. Install the continuous emission monitoring system sulfur dioxide, nitrogen oxides, and oxygen (or carbon dioxide) at the outlet of the air pollution control device. [40 CFR §62.15175(a)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
10. NO _x , continued	<p>ii. <u>Record Keeping Requirements</u></p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of all one hour average nitrogen oxides emission concentrations. [RCSA §22a-174-38(k)(3)(D)]</p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of all 24-hour daily arithmetic average nitrogen oxides emission concentrations. [RCSA §22a-174-38(k)(4)(B)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the calendar dates when any of the average emission rates, percent reductions, operating parameters or opacity levels are above the applicable limits, with reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the calendar dates for which the minimum number of hours of sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have not been obtained, including reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the times when sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have been excluded from the calculation of average emission concentrations or parameters and the reasons for excluding the data. [RCSA §22a-174-38(k)(7)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of daily calibrations and quarterly accuracy determinations for opacity, sulfur dioxide, nitrogen oxides, carbon monoxide and oxygen or carbon dioxide continuous emission monitoring systems. [RCSA §22a-174-38(k)(8)]</p> <p>You must keep records of eight items. [40 CFR §62.15305]</p> <ol style="list-style-type: none"> a. Records of monitoring data – all 1-hour average concentrations of nitrogen oxides emissions. b. Records of average concentrations and percent reductions. c. Records of exceedances. d. Records of minimum data. e. Records of exclusions. f. Records of drift and accuracy. g. Records of the relationship between oxygen and carbon dioxide. h. Records of calendar dates.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
10. NO _x , continued	<p>iii. <u>Reporting Requirements</u></p> <p>The Permittee shall review all recorded CEM data daily and notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions or parametric limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: (1) For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and (2) For any other regulated air pollutant or parameter, no later than ten (10) days after such deviation commenced. [P 189-0061, 62 & 63 Part IV.D.]</p> <p>The Permittee shall report all CEM data to the Commissioner on a quarterly basis using a one (1) hour block average. [P 189-0061, 62 & 63 Part IV.E.]</p> <p>The Permittee shall submit a quarterly report to the Commissioner within thirty (30) days following the end of each calendar quarter. Each quarterly report shall include the following:</p> <ul style="list-style-type: none"> a. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter [RCSA §22a-174-38(l)(2)(A)]; b. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameters or opacity levels recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)] <p>The Permittee shall submit an annual report to the Commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include the following:</p> <ul style="list-style-type: none"> a. A list of the highest emission level recorded of sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load, and particulate matter control device inlet temperature based on data recorded for 24-hour daily geometric averages, 24-hour daily arithmetic averages, 4-hour block averages or 4-hour block arithmetic averages, as applicable, for the aforementioned pollutants; [RCSA §22a-174-38(l)(3)(A)(ii)] b. The total number of days that the minimum number of hours of data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal combustor unit load and particulate matter control device temperature data were not obtained; and [RCSA §22a-174-38(l)(3)(A)(v)] c. The total number of hours that data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal combustor unit load and particulate matter control device temperature data were excluded from the calculation of average emission concentrations or parameters. [RCSA §22a-174-38(l)(3)(A)(vi)] <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
11. CO	<p><u>Limitations or Restrictions</u></p> <p>The Permittee shall not emit carbon monoxide (CO) in excess of 100 ppmvd corrected to 7% O₂ (dry basis) based on a four (4) hour block arithmetic average. Compliance shall be determined by CEM. [P 189-0061, 62 & 63 Part VII.D.]</p> <p>CO is limited to 6.96 lb/hr and 30.50 TPY for each furnace/boiler. [P 189-0061, 62 & 63 Part VII. Table 1]</p> <p>No owner or operator of a mass burn refractory combustor shall cause or allow the emission of carbon monoxide in excess of 100 ppmvd, corrected to 7% oxygen. [RCSA §22a-174-38(c)(10) Table 38-4]</p> <p>The emission limits and operating requirements of this section shall apply at all times except during periods of startup, shutdown or malfunction; the duration of each startup, shutdown or malfunction period shall be limited to three hours per occurrence for all MWC units. [RCSA §22a-174-38(c)(11)(A)]</p> <p>The Class 1 emission limit for existing small municipal waste combustion units for carbon monoxide is 100 parts per million by dry volume measured at 7% O₂ based on a 4-hour. [40 CFR Part 62 Subpart JJJ Table 5]</p> <p>The emission limits of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15165]</p> <p>i. <u>Monitoring and Testing Requirements</u></p> <p>The Permittee shall install and operate continuous emission monitoring systems to monitor carbon monoxide (CO) for each furnace/boiler. [RCSA §22a-174-38(j) and P 189-0061, 62 & 63 Part IV.A.]</p> <p>You must install, calibrate, maintain, and operate continuous emission monitoring systems for oxygen (or carbon dioxide), sulfur dioxide, and carbon monoxide. If you operate a Class I municipal waste combustion unit, also install, calibrate, maintain, and operate a continuous emission monitoring system for nitrogen oxides. Install the continuous emission monitoring system sulfur dioxide, nitrogen oxides, and oxygen (or carbon dioxide) at the outlet of the air pollution control device. [40 CFR §62.15175(a)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
11. CO, continued	<p>ii. <u>Record Keeping Requirements</u></p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of all one hour average carbon monoxide emission concentrations. [RCSA §22a-174-38(k)(3)(E)]</p> <p>The owner or operator of a municipal waste combustor unit shall maintain records of all 4-hour average carbon monoxide emission concentrations. [RCSA §22a-174-38(k)(4)(C)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the calendar dates when any of the average emission rates, percent reductions, operating parameters or opacity levels are above the applicable limits, with reasons for such exceedances, a description of the corrective actions taken and a description of the measures taken to prevent future exceedances. [RCSA §22a-174-38(k)(5)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the calendar dates for which the minimum number of hours of sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have not been obtained, including reasons for not obtaining sufficient data, a description of corrective actions taken and a description of the measures taken to prevent future losses of data. [RCSA §22a-174-38(k)(6)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of the times when sulfur dioxide or nitrogen oxide emissions or operational data (carbon monoxide emissions, unit load, & particulate matter control device temperature) have been excluded from the calculation of average emission concentrations or parameters and the reasons for excluding the data. [RCSA §22a-174-38(k)(7)]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of daily calibrations and quarterly accuracy determinations for opacity, sulfur dioxide, nitrogen oxides, carbon monoxide and oxygen or carbon dioxide continuous emission monitoring systems. [RCSA §22a-174-38(k)(8)]</p> <p>You must keep records of eight items. [40 CFR §62.15305]</p> <ol style="list-style-type: none"> a. Records of monitoring data – all 1-hour average concentrations of carbon monoxide emissions. b. Records of average concentrations and percent reductions. c. Records of exceedances. d. Records of minimum data. e. Records of exclusions. f. Records of drift and accuracy. g. Records of the relationship between oxygen and carbon dioxide. h. Records of calendar dates.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
11. CO, continued	<p>iii. <u>Reporting Requirements</u></p> <p>The Permittee shall review all recorded CEM data daily and notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions or parametric limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: (1) For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and (2) For any other regulated air pollutant or parameter, no later than ten (10) days after such deviation commenced. [P 189-0061, 62 & 63 Part IV.D.]</p> <p>The Permittee shall report all CEM data to the Commissioner on a quarterly basis using a one (1) hour block average. [P 189-0061, 62 & 63 Part IV.E.]</p> <p>The Permittee shall submit a quarterly report to the Commissioner within thirty (30) days following the end of each calendar quarter. Each quarterly report shall include the following:</p> <ul style="list-style-type: none"> a. All emissions data recorded pursuant to RCSA §22a-174-38 during the calendar quarter [RCSA §22a-174-38(l)(2)(A)]; b. Each calendar date during the calendar quarter reported when any of the average emission concentrations, percent reductions, operating parameters or opacity levels recorded exceeded the applicable limit; the reasons the limit was exceeded and a description of the corrective action. [RCSA §22a-174-38(l)(2)(B)] <p>The Permittee shall submit an annual report to the Commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include the following:</p> <ul style="list-style-type: none"> a. A list of the highest emission level recorded of sulfur dioxide, nitrogen oxides, carbon monoxide, municipal waste combustor unit load, and particulate matter control device inlet temperature based on data recorded for 24-hour daily geometric averages, 24-hour daily arithmetic averages, 4-hour block averages or 4-hour block arithmetic averages, as applicable, for the aforementioned pollutants; [RCSA §22a-174-38(l)(3)(A)(ii)] b. The total number of days that the minimum number of hours of data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal combustor unit load and particulate matter control device temperature data were not obtained; and [RCSA §22a-174-38(l)(3)(A)(v)] c. The total number of hours that data for sulfur dioxide, nitrogen oxides, carbon monoxide, municipal combustor unit load and particulate matter control device temperature data were excluded from the calculation of average emission concentrations or parameters. [RCSA §22a-174-38(l)(3)(A)(vi)] <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
12. VOC	<p><u>Limitations or Restrictions</u> VOC is limited to 2.83 lb/hr and 12.40 TPY for each furnace/boiler. [P 189-0061, 62 & 63 Part VII. Table 1]</p> <p>i. <u>Monitoring and Testing Requirements</u> The Permittee shall conduct a performance test for VOC, if requested by the Commissioner, for each furnace/boiler using a sampling method approved by the Commissioner. [RCSA §22a-174-33(j)(1)(K)(ii)]</p> <p>ii. <u>Record Keeping Requirements</u> The Permittee shall make and keep records of all performance tests conducted to determine compliance with the VOC emission limits for each furnace/boiler. [P 189-0061, 62 & 63 Part V.E.]</p> <p>iii. <u>Reporting Requirements</u> The Permittee shall submit reports to the Commissioner of all performance tests for VOC from the affected facility, if requested by the Commissioner. Such reports shall be submitted when available with the other required performance test reports. [P 189-0061, 62 & 63 Part V.K.]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
13. H ₂ SO ₄	<p><u>Limitations or Restrictions</u> Sulfuric Acid (H₂SO₄) is limited to 1.17 lb/hr for each furnace/boiler. [P 189-0061, 62 & 63 Part VII. Table 3]</p> <p>i. <u>Monitoring and Testing Requirements</u> The Permittee shall conduct a performance test for Sulfuric Acid, if requested by the Commissioner, for each furnace/boiler using a sampling method approved by the Commissioner. [RCSA §22a-174-33(j)(1)(K)(ii)]</p> <p>ii. <u>Record Keeping Requirements</u> The Permittee shall make and keep records of all performance tests conducted to determine compliance with the Sulfuric Acid emission limits for each furnace/boiler. [P 189-0061, 62 & 63 Part V.E.]</p> <p>iii. <u>Reporting Requirements</u> The Permittee shall submit reports to the Commissioner of all performance tests for Sulfuric Acid from the affected facility. Such reports shall be submitted with the other required dioxin/metals performance test reports. [P 189-0061, 62 & 63 Part V.K.]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
14. Cadmium, Lead, Mercury	<p><u>Limitations or Restrictions</u></p> <p>Cadmium is limited to 0.00239 lb/hr for each furnace/boiler. [P 189-0061, 62 & 63 Part VII. Table 3]</p> <p>Lead is limited to 0.0263 lb/hr and 0.12 TPY for each furnace/boiler. [P 189-0061, 62 & 63 Part VII. Table 1]</p> <p>Mercury is limited to 0.00168 lb/hr for each furnace/boiler. [[P 189-0061, 62 & 63 Part VII. Table 3]</p> <p>The Permittee shall not emit cadmium (Cd) in excess of 0.040 mg/dscm corrected to 7% O₂ (dry basis). Compliance shall be determined annually based on an arithmetic average determined using all data generated in three (3) test runs, in accordance with RCSA §22a-174-38(i)(4)(B) [P 189-0061, 62 & 63 Part VII.E.]</p> <p>The Permittee shall not emit lead (Pb) in excess of 0.44 mg/dscm corrected to 7% O₂ (dry basis). Compliance shall be determined annually based on an arithmetic average determined using all data generated in three (3) test runs, in accordance with RCSA §22a-174-38(i)(4)(B). [P 189-0061, 62 & 63 Part VII.F.]</p> <p>The Permittee shall not emit mercury (Hg) in excess of 0.028 mg/dscm corrected to 7% O₂ (dry basis) or an 85% reduction by weight, whichever is less stringent. Compliance shall be determined annually based on an arithmetic average of emission concentrations or percent reductions determined using all data generated in a minimum of at least three (3) test runs, in accordance with RCSA §22a-174-38(i)(4)(C). [P 189-0061, 62 & 63 Part VII.G.]</p> <p>No owner or operator of a municipal waste combustor for which construction commenced prior to September 20, 1994 shall cause or allow the emissions in excess of the following: [RCSA §22a-174-38(c)(1) Table 38-1 & Table 38-1a]</p> <p style="padding-left: 40px;">Cadmium: 0.040 mg/m³, corrected to 7% oxygen</p> <p style="padding-left: 40px;">Lead: 0.44 mg/m³, corrected to 7% oxygen</p> <p style="padding-left: 40px;">Mercury: 0.028 mg/m³, corrected to 7% oxygen or 85% reduction by weight measured as required by RCSA §22a-174-38(c)(7)</p> <p>The emission limits and operating requirements of this section shall apply at all times except during periods of startup, shutdown or malfunction; the duration of each startup, shutdown or malfunction period shall be limited to three hours per occurrence for all MWC units. [RCSA §22a-174-38(c)(11)(A)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
14. Cadmium, Lead, Mercury, continued	<p><u>Limitations or Restrictions, continued</u></p> <p>The Class 1 emission limit for existing small municipal waste combustion units for cadmium is 0.040 milligrams per dry standard cubic meter measured at 7% O₂ based on a 3-run average stack test; for lead is 0.490 milligrams per dry standard cubic meter measured at 7% O₂ based on a 3-run average stack test; for mercury is 0.080 milligrams per dry standard cubic meter measured at 7% O₂ based on a 3-run average stack test or 85 percent reduction of potential mercury emissions. [40 CFR Part 62 Subpart JJJ Table 2]</p> <p>The emission limits of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15165]</p> <p>i. <u>Monitoring and Testing Requirements</u></p> <p>The Permittee shall conduct an annual performance test for cadmium, lead and mercury for each furnace/boiler in accordance with RCSA §22a-174-38(i). [RCSA §22a-174-38(i)(2) and (4) and 189-0061, 62 & 63 Part VIII.A.]</p> <p>Conduct initial and annual stack tests to measure the emission levels of dioxins/furans, cadmium, lead, mercury, particulate matter, opacity, hydrogen chloride, and fugitive ash. [40 CFR §62.15230] Conduct each annual stack test no later than 13 months after the previous stack test. [40 CFR §62.15240(b)]</p> <p>ii. <u>Record Keeping Requirements</u></p> <p>The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with the cadmium, lead and mercury emission limits for each furnace/boiler in accordance with RCSA §22a-174-38(k)(10). [189-0061, 62 & 63 Part V.D.]</p> <p>For stack tests required under §62.15230 you must keep records of four items: [40 CFR §62.15300]</p> <ol style="list-style-type: none"> The results of the stack tests for cadmium, lead and mercury recorded in the appropriate units of measure specified in tables 2 and 4 of this subpart. Test reports including supporting calculations that document the results of all stack tests. The maximum demonstrated load of your municipal waste combustion units and maximum temperature at the inlet of your particulate matter control device during all stack tests for dioxins/furans emissions. The calendar date of each record.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
14. Cadmium, Lead, Mercury, continued	<p>iii. <u>Reporting Requirements</u></p> <p>The Permittee shall submit reports to the Commissioner of all required performance tests. [189-0061, 62 & 63 Part V.K.]</p> <p>The Permittee shall submit an annual report to the Commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride, and fugitive ash emission levels achieved during all initial and annual performance tests. [RCSA §22a-174-38(l)(3)(A)(i)]</p> <p>The MWC owner or operator shall provide written notification to the Commissioner within seventy-two (72) hours of the time at which such owner or operator receives information regarding performance test results indicating that any particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride or fugitive ash emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)]</p> <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
15. Hydrogen chloride	<p><u>Limitations or Restrictions</u></p> <p>Hydrogen Chloride (HCl) is limited to 2.63 lb/hr for each furnace/boiler. [P 189-0061, 62 & 63 Part VII. Table 3]</p> <p>The Permittee shall not emit hydrogen chloride (HCl) in excess of 29 ppmvd corrected to 7% O₂ (dry basis) or a 95% reduction by weight or volume, whichever is less stringent. Compliance shall be determined annually based on an arithmetic average of emission concentrations or percent reductions determined using all data generated in three (3) test runs, in accordance with RCSA §22a-174-38(i)(4)(G). [P 189-0061, 62 & 63 Part VII.H.]</p> <p>No owner or operator of a municipal waste combustor for which construction commenced prior to September 20, 1994 shall cause or allow the emission of hydrogen chloride in excess of 29 parts per million by volume (ppmvd) corrected to 7% oxygen, or 95% reduction by weight or volume. [RCSA §22a-174-38(c)(1) Table 38-1]</p> <p>The emission limits and operating requirements of this section shall apply at all times except during periods of startup, shutdown or malfunction; the duration of each startup, shutdown or malfunction period shall be limited to three hours per occurrence for all MWC units. [RCSA §22a-174-38(c)(11)(A)]</p> <p>The Class 1 emission limit for existing small municipal waste combustion units for hydrogen chloride is 31 parts per million by dry volume measured at 7% O₂ based on a 3-run average stack test or 95 percent reduction of potential mercury emissions. [40 CFR Part 62 Subpart JJJ Table 2]</p> <p>The emission limits of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15165]</p> <p>i. <u>Monitoring and Testing Requirements</u></p> <p>The Permittee shall conduct an annual performance test for hydrogen chloride for each furnace/boiler in accordance with RCSA §22a-174-38(i). [RCSA §22a-174-38(i)(2) & (4) and 189-0061, 62 & 63 Part VIII.A.]</p> <p>Conduct initial and annual stack tests to measure the emission levels of dioxins/furans, cadmium, lead, mercury, particulate matter, opacity, hydrogen chloride, and fugitive ash. [40 CFR §62.15230] Conduct each annual stack test no later than 13 months after the previous stack test. [40 CFR §62.15240(b)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
15. Hydrogen chloride, continued	<p>ii. <u>Record Keeping Requirements</u> The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with the hydrogen chloride emission limits for each furnace/boiler in accordance with RCSA §22a-174-38(k)(10). [P 189-0061, 62 & 63 Part V.D.]</p> <p>For stack tests required under §62.15230 you must keep records of four items: [40 CFR §62.15300]</p> <ul style="list-style-type: none"> a. The results of the stack tests for hydrogen chloride recorded in the appropriate units of measure specified in tables 2 and 4 of this subpart. b. Test reports including supporting calculations that document the results of all stack tests. c. The maximum demonstrated load of your municipal waste combustion units and maximum temperature at the inlet of your particulate matter control device during all stack tests for dioxins/furans emissions. d. The calendar date of each record. <p>iii. <u>Reporting Requirements</u> The Permittee shall submit reports to the Commissioner of all required performance tests. [189-0061, 62 & 63 Part V.K.]</p> <p>The Permittee shall submit an annual report to the Commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride, and fugitive ash emission levels achieved during all initial and annual performance tests. [RCSA §22a-174-38(l)(3)(A)(i)]</p> <p>The MWC owner or operator shall provide written notification to the Commissioner within seventy-two (72) hours of the time at which such owner or operator receives information regarding performance test results indicating that any particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride or fugitive ash emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)]</p> <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
16. Dioxin/furan	<p><u>Limitations or Restrictions</u></p> <p>The Permittee shall not emit dioxin/furan in excess of 30 ng/dscm corrected to 7% O₂ (dry basis), total mass (total tetra through octa-dibenzo-p-dioxins and dibenzofurans). Compliance shall be determined annually based on an arithmetic average determined using all data generated in three (3) test runs, in accordance with RCSA §22a-174-38(i)(4)(H). [P 189-0061, 62 & 63 Part VIII.I.]</p> <p>No owner or operator of a municipal waste combustor for which construction commenced prior to September 20, 1994 shall cause or allow the emission of dioxin/furan in excess of 30 ng/dscm total mass, corrected to 7% oxygen. [RCSA §22a-174-38(c)(1) Table 38-1]</p> <p>The emission limits and operating requirements of this section shall apply at all times except during periods of startup, shutdown or malfunction; the duration of each startup, shutdown or malfunction period shall be limited to three hours per occurrence for all MWC units. [RCSA §22a-174-38(c)(11)(A)]</p> <p>The Class 1 emission limit for existing small municipal waste combustion units for dioxins/furans is 30 nanograms per dry standard cubic meter measured at 7% O₂ based on a 3-run average stack test. [40 CFR Part 62 Subpart JJJ Table 2]</p> <p>The emission limits of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15165]</p> <p>i. <u>Monitoring and Testing Requirements</u></p> <p>The Permittee shall conduct an annual performance test for dioxin/furan for each furnace/boiler in accordance with RCSA §22a-174-38(i). [RCSA §22a-174-38(i)(2) & (4) and 189-0061, 62 & 63 Part VIII.A.]</p> <p>Notwithstanding RCSA §22a-174-38(i)(2), upon determination for two (2) consecutive years that the dioxin/furan emission levels from all units at a MWC plant for which construction commenced prior to September 20, 1994 are less than fifteen (15) ng/dscm total mass, the MWC owner or operator shall only be required to conduct performance testing for dioxin/furan on one unit at that MWC plant. The owner or operator shall rotate performance testing among units no more than twelve (12) months following the previous performance test in a fixed sequence so that each unit is tested at the same frequency. If in any year of election of such reduced testing, the dioxin/furan emission test results indicate a level equal to or greater than fifteen (15) ng/dscm total mass for any unit for which construction commenced prior to September 20, 1994, the MWC owner or operator shall resume testing of all units at the MWC plant during the next annual performance test. The owner or operator shall continue to test all units on an annual basis until the performance tests for all units indicate dioxin/furan emission levels that meet the requirements of this subdivision, at which time the owner/operator may resume testing in accordance with this subdivision. [RCSA §22a-174-38(i)(3)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
<p>16. Dioxin/furan, continued</p>	<p>i. <u>Monitoring and Testing Requirements, continued</u> Conduct initial and annual stack tests to measure the emission levels of dioxins/furans, cadmium, lead, mercury, particulate matter, opacity, hydrogen chloride, and fugitive ash. [40 CFR §62.15230] Conduct each annual stack test no later than 13 months after the previous stack test. [40 CFR §62.15240(b)]</p> <p>ii. <u>Record Keeping Requirements</u> The Permittee shall make and keep records of all annual performance tests conducted to determine compliance with the dioxin/furan emission limits for each furnace/boiler in accordance with RCSEA §22a-174-38(k)(10). [P 189-0061, 62 & 63 Part V.D.]</p> <p>For stack tests required under §62.15230 you must keep records of four items: [40 CFR §62.15300]</p> <ol style="list-style-type: none"> The results of the stack tests for dioxins/furans recorded in the appropriate units of measure specified in tables 2 and 4 of this subpart. Test reports including supporting calculations that document the results of all stack tests. The maximum demonstrated load of your municipal waste combustion units and maximum temperature at the inlet of your particulate matter control device during all stack tests for dioxins/furans emissions. The calendar date of each record.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
16. Dioxin/furan, continued	<p>iii. <u>Reporting Requirements</u></p> <p>The Permittee shall submit reports to the Commissioner of all required performance tests. [189-0061, 62 & 63 Part V.K.]</p> <p>The Permittee shall submit an annual report to the Commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride, and fugitive ash emission levels achieved during all initial and annual performance tests. [RCSA §22a-174-38(l)(3)(A)(i)]</p> <p>The MWC owner or operator shall provide written notification to the Commissioner within seventy-two (72) hours of the time at which such owner or operator receives information regarding performance test results indicating that any particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride or fugitive ash emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)]</p> <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued		
Pollutants or Process Parameters	Compliance Demonstration Requirements	
17. Hazardous Air Pollutants	<u>Limitations or Restrictions</u> Emissions of these pollutants shall comply with RCSA §22a-174-29 concerning Hazardous Air Pollutants and in no case shall the Allowable Stack Concentration (ASC) exceed the Maximum Allowable Stack Concentration (MASC) value for pollutants listed below. Hazardous Air Pollutant Summary [P 189-0061, 62 & 63 Part VII. Table 3]	
	<u>HAP</u>	<u>lbs/hr</u> <u>MASC (µg/m³)</u>
	Arsenic (As)	4.41e-3 29
	Beryllium (Be)	8.83e-4 6
	Cadmium (Cd)	2.39e-3 236
	Chromium (Cr)	2.21e-1 1,473
	Copper (Cu)	1.77 11,783
	Dioxin/Furan	6.18e-8 0.00041
	HCl	2.63
	Total Fluorides	4.41 29,456
	Lead	0.0263 1,767
	Manganese (Mn)	1.77 11,783
	Mercury (Hg)	1.68e-3 589
	Nickel (Ni)	2.65e-2 177
	PAH	8.8 e-3 59
	H ₂ SO ₄	1.17 11,783
	Zinc (Zn)	8.83 58,913
	<u>i. Monitoring and Testing Requirements</u> The Permittee shall calculate the actual stack concentration (ASC) and the maximum allowable stack concentration (MASC) of the hazardous air pollutants (HAPs) listed above using the formula in RCSA §22a-174-29. The Permittee shall demonstrate, by comparing the results from such calculations, that the ASC of each HAP does not exceed the appropriate MASC. [RCSA §22a-174-29]	
	<u>ii. Record Keeping Requirements</u> The Permittee shall make and keep records of the ASC and MASC for the above pollutants. [RCSA §22a-174-33(j)(1)(K)(ii)]	
	<u>iii. Reporting Requirements</u> The Permittee shall provide written notification to the Commissioner within three (3) working days of the time at which the Permittee receives information regarding performance test results indicating that the stack concentration levels exceed the MASC limits. [RCSA §22a-174-4(c)(1)]	

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
18. Oxygen or Carbon Dioxide Monitoring	<p>i. <u>Monitoring and Testing Requirements</u> The Permittee shall install and operate continuous emission monitoring systems to monitor oxygen (O₂) levels in each furnace/boiler exhaust flue. [P 189-0061, 62 & 63 Part IV.B.]</p> <p>The owner or operator of a municipal waste combustor shall also install, operate, calibrate and maintain continuous monitoring systems for measuring the final particulate control device inlet temperature, municipal waste combustor unit load, and the oxygen or carbon dioxide content of the flue gas at each location where carbon dioxide, sulfur dioxide or nitrogen oxide emissions are monitored. [RCSA §22a-174-38(j)]</p> <p>All emission limits, except for those identified for opacity, shall be corrected to seven percent oxygen (7% O₂), unless the Permittee submits information to justify a correction to an equivalent percent carbon dioxide (% CO₂) and receives the Commissioner's written approval. If the Permittee seeks to use an equivalent % CO₂, the Permittee must demonstrate the relationship between O₂ and CO₂ levels as specified in subparagraph (J) of subdivision (4) of subsection (i) of RCSA §22a-174-38 and submit a written report to the Commissioner summarizing the results of the demonstration. This relationship may be reestablished during any performance test conducted pursuant to subsection (i) of RCSA §22a-174-38. [RCSA §22a-174-38(c)(12) and P 189-0061, 62 & 63 Part IV.A.]</p> <p>You must install, calibrate, maintain, and operate continuous emission monitoring systems for oxygen (or carbon dioxide), sulfur dioxide, and carbon monoxide. If you operate a Class I municipal waste combustion unit, also install, calibrate, maintain, and operate a continuous emission monitoring system for nitrogen oxides. Install the continuous emission monitoring system sulfur dioxide, nitrogen oxides, and oxygen (or carbon dioxide) at the outlet of the air pollution control device. [40 CFR §62.15175(a)]</p> <p>ii. <u>Record Keeping Requirements</u> The Permittee shall record all 1-hour average oxygen levels for each furnace/boiler. [P 189-0061, 62 & 63 Part IV]</p> <p>The owner or operator of a municipal waste combustor shall maintain records of daily calibrations and quarterly accuracy determinations for opacity, sulfur dioxide, nitrogen oxides, carbon monoxide and oxygen or carbon dioxide continuous emission monitoring systems. [RCSA §22a-174-38(k)(8)]</p> <p>iii. <u>Reporting Requirements</u> The Permittee shall report all CEM data to the Commissioner on a quarterly basis using a one (1) hour block average. [P 189-0061, 62 & 63 Part IV.E.]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
19. Operator Training and Certification	<p><u>Limitations or Restrictions</u></p> <p>The Permittee shall not cause or allow the plant to be operated at any time unless a certified chief operator or shift operator is physically present at the plant. [RCSA §22a-174-38(h)(1)] Operators shall be certified by the Commissioner under section 22a-231-1 of the Regulations. [RCSA §22a-174-38(h)(2)] All chief operators and shift operators must satisfactorily complete an operator training course conducted by the Commissioner pursuant to RCSA §22a-174-38(h)(3). The equipment operators shall be trained in the operation and maintenance of both the fuel burning and pollution control equipment. [P 189-0061, 62 & 63 Part VI.A.]</p> <p>The Permittee shall establish a training program to review the O&M Manual with each person who has responsibilities affecting the operation of the plant. The training program shall be repeated on an annual basis for each person. [RCSA §22a-174-38(h)(5)] [P 189-0061, 62 & 63 Part VI.C.]</p> <p>No owner or operator of a municipal waste combustor plant shall cause or allow such plant to be operated at any time unless a certified chief operator or shift operator is physically present at the plant. [RCSA §22a-174-38(h)(1)]</p> <p>Operators shall be certified by the Commissioner under section 22a-231-1 of the Regulations of Connecticut State Agencies and shall be identified as either a Class I or Class II chief operator or a Class I or a Class II shift operator. [RCSA §22a-174-38(h)(2)]</p> <p>All chief operators and shift operators must satisfactorily complete an operator training course conducted by the Commissioner no later than 180 days following June 28, 1999 or the date six months after the date of plant startup, whichever is later. Chief operators and shift operators hired after this time must satisfactorily complete such a course within six (6) months of the date of employment. [RCSA §22a-174-38(h)(3)]</p> <p>Three types of employees must complete the EPA operator course: (1) Chief facility operators. (2) Shift supervisors. (3) Control room operators. [40 CFR §62.15105(a)] The requirement does not apply to chief facility operators, shift supervisors and control room operators who have obtained full certification from the American Society of Mechanical Engineers on or before the effective date of this subpart. [40 CFR §62.15105]</p> <p>All employees with responsibilities that affect how a municipal waste combustion unit operates must complete the plant specific-training course. Include at least six types of employees: (1) Chief facility operators. (2) Shift supervisors. (3) Control room operators. (4) Ash handlers. (5) Maintenance personnel. (6) Crane or load handlers. [40 CFR §62.15110]</p> <p>For plant-specific training, you must do four things: (a) For training at a particular plant, develop a specific operating manual for the plant by one year after the effective date of this subpart. (b) Establish a program to review the plant-specific operating manual with people whose responsibilities affect the operation of the municipal waste combustion unit. (c) Update the manual annually. (d) Review the manual with staff annually. [40 CFR §62.15115]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
19. Operator Training and Certification, continued	<p><u>Limitations or Restrictions, continued</u></p> <p>Each chief facility operator and shift supervisor must obtain and maintain a current provisional operator certification from either the American Society of Mechanical Engineers QRO-1-1994 or a State certification program in Connecticut. [40 CFR §62.15130(a)]</p> <p>After the required date for full or provisional certification, you must not operate your municipal waste combustion unit unless one of four employees is on duty: [40 CFR §62.15135]</p> <ul style="list-style-type: none"> (a) A fully certified chief facility operator. (b) A provisionally certified chief facility operator who is scheduled to take the full certification exam. (c) A fully certified shift supervisor. (d) A provisionally certified shift supervisor who is scheduled to take the full certification exam. <p>If the certified chief facility operator and certified shift supervisor both are unavailable, a provisionally certified control room operator at the municipal waste combustion unit may fulfill the certified operator requirement. Depending on the length of time that a certified chief facility operator and certified shift supervisor is away, you must meet one of three criteria: [40 CFR §62.15140]</p> <ul style="list-style-type: none"> (a) When the certified chief facility operator and certified shift supervisor are both offsite for 12 hours or less and no other certified operator is onsite, the provisionally certified control room operator may perform those duties without notice to, or approval by, the Administrator. (b) When the certified chief facility operator and certified shift supervisor are offsite for more than 12 hours, but for 2 weeks or less, and no other certified operator is onsite, the provisionally certified control room operator may perform those duties without notice to, or approval by, the Administrator. However, you must record the periods when the certified chief facility operator and certified shift supervisor are offsite and include this information in the annual report as specified under §62.15340(l). (c) When the certified chief facility operator and certified shift supervisor are offsite for more than 2 weeks and no other certified operator is onsite, the provisionally certified control room operator may perform those duties without notice to, or approval by, the Administrator. However, you must take two actions: <ul style="list-style-type: none"> (1) Notify the Administrator in writing. In the notice, state what caused the absence and what you are doing to ensure that a certified chief facility operator or certified shift supervisor is onsite. (2) Submit a status report and corrective action summary to the Administrator every 4 weeks following the initial notification. If the Administrator notifies you that your status report or corrective action summary is disapproved, the municipal waste combustion unit may continue operation for 90 days, but then must cease operation. If corrective actions are taken in the 90-day period such that the Administrator withdraws the disapproval, the municipal waste combustion unit may continue.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
19. Operator Training and Certification, continued	<p>i. <u>Monitoring and Testing Requirements</u> The Permittee shall monitor the date, the time of the shift and the name of the certified operator of that shift during operation of this facility. [P 189-0061, 62 & 63 Part V.G.]</p> <p>ii. <u>Record Keeping Requirements</u> The Permittee shall make and keep records for operator training and certification in accordance with RCSA §22a-174-38(k)(2)(A). Records for plant operation shall include the date, the time of the shift, the name of the operator of that shift and the operator's certification. [P 189-0061, 62 & 63 Part V.G.]</p> <p>The Permittee shall maintain the following records of operator training and certification on an annual basis. [RCSA §22a-174-38(k)(2)]</p> <ul style="list-style-type: none"> a. The names of the chief operators and shift operators, certified by the Commissioner, and employed at the plant, including the dates of initial and renewal certifications and documentation of current certification; b. The names of the chief operators and shift operators who have completed an operator training course as required under RCSA §22a-174-38(h)(3); and c. The names of the persons at the plant who have completed a training program as required under RCSA §22a-174-38(h)(5). <p>You must keep records of six items. [40 CFR §62.15295]</p> <ul style="list-style-type: none"> a. Records of provisional certifications. b. Records of full certifications. c. Records of showing completion of the operator training course. d. Records of reviews for plant-specific operating manuals. e. Records of when a certified operator is temporarily offsite. f. Records of calendar dates.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
20. O&M Manual	<p><u>Limitations or Restrictions</u></p> <p>The owner or operator of a municipal waste combustor shall develop a site-specific Municipal Waste Combustor Operating and Maintenance Manual with an index. Such Municipal Waste Combustor Operating and Maintenance Manual shall include: [RCSA §22a-174-38(h)(4)]</p> <ol style="list-style-type: none"> (1) A summary of the applicable emission limits and operational requirements; (2) A description of basic combustion theory application to an municipal waste combustor unit; (3) Procedures for receiving, handling, and feeding municipal solid waste; (4) Procedures for startup, shutdown, and malfunction; (5) Procedures for maintaining proper combustion air supply levels; (6) Procedures for operating the combustor within the standards established under RCSA §22a-174-38; (7) Procedures for responding to periodic upset or off-specification conditions; (8) Procedures for minimizing particulate matter carryover; (9) Procedures for handling ash; (10) Procedures for monitoring emissions; and (11) Procedures for reporting and record keeping. <p>The owner or operator of a municipal waste combustor plant shall establish a training program to review the Municipal Waste Combustor Operating and Maintenance Manual with each person who has responsibilities affecting the operation of a MWC plant including, but not limited to chief operator, shift operator, ash handler, maintenance employee, and crane/load handler. The owner or operator shall train new employees with the job positions identified above prior to each new employee's assumption of any responsibilities at a MWC plant. The owner or operator shall train those who presently are employed in the job position identified above within one year of June 28, 1999. Following initial training, the program shall be repeated on an annual basis for each person identified above. [RCSA §22a-174-38(h)(5)]</p> <p>The Operating and Maintenance Manual shall be kept in a location readily accessible to all persons identified in RCSA §22a-174-38(h)(5) and shall be available for inspection by the Commissioner or Administrator. [RCSA §22a-174-38(h)(6)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
20. O&M Manual, continued	<p><u>Limitations or Restrictions, continued</u></p> <p>The Permittee shall maintain an Operating and Maintenance (O&M) Manual that shall be updated on a yearly basis. [RCSA §22a-174-38(h)(4)] Any revision to this manual which conflicts or may conflict with any condition of this permit shall be reviewed by the Commissioner and shall receive the Commissioner's written approval prior to incorporating such revision in the O&M Manual. [P 189-0061, 62 & 63 Part VI.B.]</p> <p>You must include 11 items in the operating manual for your plant. [40 CFR §62.15120]</p> <ol style="list-style-type: none"> (1) A summary of all applicable standards in this subpart (2) A description of basic combustion principles that apply to municipal waste combustor units. (3) Procedures for receiving, handling, and feeding municipal solid waste. (4) Procedures to be followed during periods of startup, shutdown, and malfunction of the municipal waste combustor unit. (5) Procedures for maintaining a proper level of combustion air supply. (6) Procedures for operating the municipal waste combustor unit within the standards contained in this subpart. (7) Procedures for responding to periodic upset or off-specification conditions. (8) Procedures for minimizing carryover of particulate matter. (9) Procedures for handling ash. (10) Procedures for monitoring emissions from the municipal waste combustor unit. (11) Procedures for record keeping and reporting. <p>You must keep your operating manual in an easily accessible location at your plant. It must be available for review or inspection by all employees who must review it and by the Administrator. [40 CFR §62.15125]</p> <p>i. <u>Monitoring and Testing Requirements</u></p> <p>The Permittee shall monitor the review of the operating manual by each person who has responsibilities affecting the operation of the facility. [P 189-0061, 62 & 63 Part V.H.]</p> <p>ii. <u>Record Keeping Requirements</u></p> <p>The Permittee shall make and keep records for review of the O&M manual in accordance with RCSA §22a-174-38(k)(2)(C). Records for review of the O&M manual shall include the name of each person that has reviewed the operating manual, the date of initial review and the date of the annual review. [P 189-0061, 62 & 63 Part V.H.]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
21. Carbon Injection System	<p><u>Limitations or Restrictions</u> During the operation of a MWC unit, the carbon injection system operating parameter(s) that is the primary indicator(s) of the carbon mass feed rate (e.g., screw feeder setting) shall equal or exceed the level(s) documented during the performance tests specified under RCSA §22a-174-38(i), based on a 24-hour arithmetic average. [RCSA §22a-174-38(g)(5)]</p> <p>If your municipal waste combustion unit uses activated carbon to control dioxins/furans or mercury emissions, you must maintain an 8-hour block average carbon feed rate at or above the highest level established during the most recent dioxins/furans or mercury test. [40 CFR §62.15145(c)]</p> <p>If your municipal waste combustion unit uses activated carbon to control dioxins/furans or mercury emissions, you must evaluate total carbon usage for each calendar quarter. The total amount of carbon purchased and delivered to your municipal waste combustion unit must be at or above the required quarterly usage of carbon. At your option, you may choose to evaluate required quarterly carbon usage on a municipal waste combustion unit at your plant. Calculate the required quarterly usage of carbon using the appropriate equation in §62.15390. [40 CFR §62.15145(d)]</p> <p>The operating requirements of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15150]</p> <p>i. <u>Monitoring and Testing Requirements</u> The Permittee shall monitor the lime slurry feed rate, which is used to estimate the carbon mass feed rate. [P 189-0061, 62 & 63 Part IV.B.]</p> <p>If your municipal waste combustion unit used activated carbon to control dioxins/furans or mercury emissions, you must meet three requirements. (a) Select a carbon injection system operating parameter that can be used to calculate carbon feed rate (for example screw feeder speed). (b) During each dioxins/furans and mercury stack test, determine the average carbon feed rate in kilograms (or pounds) per hour. Also, determine the average operating parameter level that correlates to the carbon feed rate. Establish a relationship between the operating parameter and the carbon feed rate in order to calculate the carbon feed rate based on the operating parameter level. (c) Continuously monitor the selected operating parameter during all periods when the municipal waste combustion unit is operating and combusting waste and calculate the 8-hour block average carbon feed rate in kilograms (or pounds) per hour, based on the selected operating parameter. When calculating the 8-hour block average, do two things: (1) Exclude hours when the municipal waste combustion unit is not operating. (2) Include hours when the municipal waste combustion unit is operating but the carbon feed system is not working correctly. [40 CFR §62.15275]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
21. Carbon Injection System	<p>ii. <u>Record Keeping Requirements</u></p> <p>The Permittee shall monitor the lime slurry feed rate, which is used to estimate the carbon mass feed rate for the carbon injection system. The Permittee shall make and keep records for the carbon injection system in accordance with RCSA §22a-174-38(k)(11). [P 189-0061, 62 & 63 Part V.I.]</p> <p>The Permittee shall make and keep records for the carbon injection system as described below. [RCSA §22a-174-38(k)(11)]</p> <ol style="list-style-type: none"> a. Estimates of the average carbon mass feed rate, measured in kilograms per hour or pounds per hour, during the initial mercury performance test and all subsequent annual performance tests, with supporting calculations; b. Estimates of the average carbon mass feed rate, measured in kilograms per hour or pounds per hour, for each hour of operation, with supporting calculations; c. For each calendar quarter, estimates of the total carbon usage for each MWC unit in kilograms or pounds for each calendar quarter by two independent methods, according the procedures specified below: <ol style="list-style-type: none"> 1. For each MWC unit, estimate the weight of carbon delivered, and 2. For each MWC unit, estimate the average carbon mass feed rate in kilograms per hour or pounds per hour for each hour of operation based on the parameters specified under RCSA §22a-174-38(i)(4)(K), and sum the results for the total number of hours of operation during the calendar quarter. d. Carbon injection system operating parameter data for the parameter(s) that are the primary indicator(s) of carbon feed rate (e.g., screw feeder speed); and e. The calendar dates when average carbon mass feed rates were less than the hourly carbon feed rates estimated during mercury emission tests. The reasons for such feed rates and a description of corrective actions taken shall also be recorded. <p>For municipal waste combustion units that use activated carbon to control dioxins/furans or mercury emissions, you must keep five items. [40 CFR §62.15310]</p> <ol style="list-style-type: none"> a. Records of average carbon feed rate. b. Records of low carbon feed rates. c. Records of minimum carbon feed rate data. d. Records of exclusions. e. Records of calendar dates.

Section III: Applicable Requirements and Compliance Demonstration

Table III.A: EMISSIONS UNITS EMU-001, EMU-002 and EMU-003, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
21. Carbon Injection System, continued	<p>iii. <u>Reporting Requirements</u></p> <p>The Permittee shall review all recorded CEM data daily and notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions or parametric limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows: (1) For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and (2) For any other regulated air pollutant or parameter, no later than ten (10) days after such deviation commenced. [P 189-0061, 62 & 63 Part IV.D.]</p> <p>The Permittee shall report all CEM data to the Commissioner on a quarterly basis using a one (1) hour block average. [P 189-0061, 62 & 63 Part IV.E.]</p> <p>The Permittee shall submit an initial performance test report to the Commissioner within sixty (60) days after the completion of the initial performance test. The report shall identify the average carbon mass feed rate recorded. [RCSA §22a-174-38(l)(1)(F)]</p> <p>The Permittee shall submit a quarterly report to the Commissioner within thirty (30) days following the end of each calendar quarter. Each quarterly report shall include the following: (1) identification of the calendar dates during the calendar quarter reported when average carbon mass feed rates were less than either of the hourly carbon feed rates estimated during mercury emission tests, and the rates recorded. The reasons for such feed rates and a description of the corrective actions taken shall also be reported. (2) The total carbon purchased for and delivered to the MWC plant or purchased for and delivered to each MWC unit for the reported calendar quarter, and (3) the required usage of carbon for the reported calendar quarter for the MWC plant or for each MWC unit at the plant, calculated using equation 4 or 5 of 40 CFR 60.1935(f). [RCSA §22a-174-38(l)(2)(C)]</p> <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

B. EMISSIONS UNIT EMU-005

Table III.B: EMISSIONS UNIT EMU-005	
Pollutants or Process Parameters	Compliance Demonstration Requirements
1. Fugitive Ash Emissions	<p><u>Limitations or Restrictions</u></p> <p>No owner or operator of a municipal waste combustor plant shall cause to be discharged to the atmosphere visible emissions of combustion ash from the ash conveying system, including transfer points, in excess of five percent (5%) of the observation period (i.e., nine (9) minutes per three-hour period), as specified in RCSA §22a-174-38(i)(4)(I). [RCSA §22a-174-38(f)(1)]</p> <p>The emission limit specified in RCSA §22a-174-38(f)(1) does cover visible emissions discharged into the atmosphere from buildings and enclosures of ash conveying systems. [RCSA §22a-174-38(f)(2)]</p> <p>The provisions specified in RCSA §22a-174-38(f)(1) do not apply during maintenance and repair of ash conveying systems, however, all reasonable measures to control fugitive emissions on such occasions shall be implemented. [RCSA §22a-174-38(f)(3)]</p> <p>The Class 1 emission limit for existing small municipal waste combustion units for fugitive ash is visible emissions for no more than 5 percent of hourly observation period based on three 1-hour observation periods. [40 CFR Part 62 Subpart JJJ Table 2]</p> <p>The emission limits of this subpart apply at all times except during periods of municipal waste combustion unit startup, shutdown or malfunction. Each startup, shutdown, or malfunction must not last for longer than 3 hours. [40 CFR §62.15165]</p> <p>i. <u>Monitoring and Testing Requirements</u></p> <p>The Permittee shall conduct an annual performance test for fugitive ash emissions in accordance with RCSA §22a-174-38(i). [RCSA §22a-174-38(i)(2)]</p> <p>Conduct initial and annual stack tests to measure the emission levels of dioxins/furans, cadmium, lead, mercury, particulate matter, opacity, hydrogen chloride, and fugitive ash. [40 CFR §62.15230] Conduct each annual stack test no later than 13 months after the previous stack test. [40 CFR §62.15240(b)]</p>

Section III: Applicable Requirements and Compliance Demonstration

Table III.B: EMISSIONS UNIT EMU-005, continued

Pollutants or Process Parameters	Compliance Demonstration Requirements
1. Fugitive Ash Emissions, continued	<p>ii. <u>Record Keeping Requirements</u> The Permittee shall make and keep records of the test reports and supporting calculations of all annual performance tests conducted to determine compliance with the emission limits for fugitive ash. [RCSA §22a-174-38(k)(10)]</p> <p>For stack tests required under §62.15230 you must keep records of four items: [40 CFR §62.15300]</p> <ul style="list-style-type: none"> a. The results of the stack tests for fugitive ash recorded in the appropriate units of measure specified in tables 2 and 4 of this subpart. b. Test reports including supporting calculations that document the results of all stack tests. c. The maximum demonstrated load of your municipal waste combustion units and maximum temperature at the inlet of your particulate matter control device during all stack tests for dioxins/furans emissions. d. The calendar date of each record. <p>iii. <u>Reporting Requirements</u> The Permittee shall submit an annual report to the Commissioner no later than January 30 of each year following the calendar year in which the data were collected. Each annual report shall include a list of the particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride, and fugitive ash emission levels achieved during all initial and annual performance tests. [RCSA §22a-174-38(l)(3)(A)(i)]</p> <p>The MWC owner or operator shall provide written notification to the Commissioner within seventy-two (72) hours of the time at which such owner or operator receives information regarding performance test results indicating that any particulate matter, opacity, cadmium, lead, mercury, dioxin/furan, hydrogen chloride or fugitive ash emission levels exceed the applicable pollutant emission limits or standards defined in RCSA §22a-174-38. [RCSA §22a-174-38(l)(6)]</p> <p>Submit an initial report and annual reports, plus semiannual reports for any emission or parameter level that does not meet the limits specified in this subpart. Submit all reports on paper, postmarked on or before the submittal dates in §62.15325, §62.15335, and §62.15350. If the Administrator agrees, you may submit electronic reports. Keep a copy of all reports required by §62.15330, §62.15340, and §62.15355 on site for 5 years. [40 CFR §62.15315]</p>

Section III: Applicable Requirements and Compliance Demonstration

C. PREMISES-WIDE GENERAL REQUIREMENTS

Table III.C: PREMISES-WIDE GENERAL REQUIREMENTS		
Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
1. General Record Keeping Requirements	RCSA §22a-174-33(o)(2) §22a-174-38(k)(1)	i. The Permittee shall maintain and keep records of all required monitoring data and supporting information at the premises and make such records available for inspection and copying by the Commissioner at the premises, for at least five years from the date such data and information were obtained, in accordance with Section VII.F. of this permit and RCSA 22a-174-33(o)(2). ii. The owner or operator of a municipal waste combustor shall maintain records of the information specified in subdivisions (2) through (11) of this subsection, as applicable, labeling each record with the calendar date on which the data was generated. Each record shall be maintained for a period of at least five (5) years from the date the record was created. [RCSA §22a-174-38(k)(1)]
2. General Reporting Requirements	RCSA §22a-174-33(o)(1) §22a-174-33(q)(1) §22a-174-33(q)(2) §22a-174-38(l)(9)	i. The Permittee shall submit to the commissioner written monitoring reports on January 30 and July 30 of each year in accordance with Section VII.E. of this permit and RCSA §22a-174-33(o)(1). ii. The Permittee shall, on January 30 and July 30 of each year, submit to the commissioner, a progress report, regarding the Permittee's progress in achieving compliance under the compliance schedule contained in this permit, in accordance with Section VII.G. of this permit and RCSA §22a-174-33(q)(1). iii. The Permittee shall, on January 30 of each year, submit to the commissioner a written compliance certification in accordance with Section VII.H. of this permit and RCSA §22a-174-33(q)(2). iv. The MWC owner or operator shall submit all reports specified under this subsection as a paper copy, with supporting data in either paper or electronic format, postmarked on or before the submittal dates specified in this subsection, and maintain such reports at the premises as a paper copy with any supporting data in the format submitted for a period of five (5) years from the date of submission to the commissioner.
3. Permitting Requirements	RCSA §22a-174-2a	The Permittee shall comply with the procedural requirements for new source review and Title V permitting in accordance with RCSA §22a-174-2a.
4. Emission Statements	RCSA §22a-174-4	The Permittee shall submit annual emission inventory statements to the Commissioner in accordance with RCSA §22a-174-4(c)(1).
5. Source Monitoring	RCSA §22a-174-4	The Permittee shall comply with the procedures for source monitoring as specified in RCSA §22a-174-4.
6. Test Methods	RCSA §22a-174-5	The Permittee shall comply with methods for sampling, emission testing, sample analysis, and reporting in accordance with RCSA §22a-174-5.

Section III: Applicable Requirements and Compliance Demonstration

Table III.C: PREMISES-WIDE GENERAL REQUIREMENTS, continued		
Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
7. Emergency Episodes	RCSA §22a-174-6	The Permittee shall comply with the procedures for emergency episodes as specified in RCSA §22a-174-6.
8. Malfunctions	RCSA §22a-174-7	The Permittee shall comply with the procedures for malfunction of control equipment as specified in RCSA §22a-174-7.
9. Public Availability of Information	RCSA §22a-174-10	The public availability of information shall apply, as specified in RCSA §22a-174-10.
10. Concealment/ circumvention	RCSA §22a-174-11	The Permittee shall comply with the prohibition against concealment or circumvention as specified in RCSA §22a-174-11.
11. Severability	RCSA §22a-174-15	Severability shall apply as specified in RCSA §22a-174-15.
12. Particulates	RCSA §22a-174-18	The Permittee shall comply with the standards for control of particulate emissions as specified in RCSA §22a-174-18.
13. Sulfur Compounds	RCSA §22a-174-19	The Permittee shall comply with the standards for control of sulfur compounds as specified in RCSA §22a-174-19.
14. Organic Compounds	RCSA §22a-174-20	The Permittee shall comply with the standards for control of volatile organic compounds as specified in RCSA §22a-174-20.
15. Nitrogen Oxides	RCSA §22a-174-22	The Permittee shall comply with the standards for control of nitrogen oxide emissions as specified in RCSA §22a-174-22.
16. Air Quality Standards	RCSA §22a-174-24(b)	The Permittee shall not operate a source, in such a manner as to cause or contribute to a violation of an ambient air quality standard listed in RCSA §22a-174-24.
17. Emission Fees	RCSA §22a-174-26	The Permittee shall pay an emission fee in accordance with RCSA §22a-174-26.

Section III: Applicable Requirements and Compliance Demonstration

Table III.C: PREMISES-WIDE GENERAL REQUIREMENTS, continued		
Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
18. Municipal Waste Combustors	RCSA §22a-174-38	The Permittee shall comply with the standards for municipal waste combustors in accordance with RCSA §22a-174-38.
19. Continuous monitor	P 189-0061, 62 & 63 Part IV.C	All CEM equipment and recorders shall be installed, operated, calibrated, tested and maintained in a manner that demonstrates compliance with siting, performance and quality assurance specifications stated in 40 CFR Part 60, Appendices B and F and RCSA §22a-174-38(j).
20. Performance Tests	RCSA §22a-174-38 (l)(4) & (5)	<p>At least ninety (90) days before any MWC owner or operator plans to conduct any performance test required under this subsection, such owner or operator shall submit a performance test plan for review and written approval of the commissioner. Such plan shall contain, at a minimum, the following information: (A) sampling locations; (B) test methods; (C) sampling protocols; (D) sample analysis procedures; and (E) any other information required by the commissioner.</p> <p>The MWC owner or operator shall provide written notification to the commissioner three (3) business days prior to conducting any performance test required under this subsection.</p>
21. Control Equipment Malfunction	P 189-0061, 62 & 63 Part IX	<p>In addition to complying with the requirements of RCSA §22a-174-7, the Permittee shall also comply with the following conditions:</p> <ol style="list-style-type: none"> Except as otherwise provided in this permit or in RCSA §22a-174-38, the Permittee shall only be allowed to operate this furnace/boiler during shutdown of air pollution control equipment when there is a malfunction of such air pollution control equipment and as allowed under §22a-174-7(b) of the Regulations. The period for which the facility will be allowed to operate during shutdown of the air pollution control equipment shall not exceed the burnout of the furnace/boiler's charge at the time of the shutdown of the air pollution control equipment. No MSW may be charged into the hopper following a shutdown of the air pollution control equipment until after the air pollution control equipment has been put back on-line. In the event of a malfunction of this unit's spray dryer absorber, the MWC's exhaust gases must continue to be vented through the malfunctioning absorber, provided the baghouse is functioning properly and is adequately protected from the temperature of the MWC's hot combustion gases and particulate matter. None of the conditions in this part shall exempt the Permittee from compliance with any other condition of this permit, with any emission limit established in this permit, or with any applicable state or federal regulation.

Section III: Applicable Requirements and Compliance Demonstration

Table III.C: PREMISES-WIDE GENERAL REQUIREMENTS, continued		
Pollutants or Process Parameters	Applicable Regulatory References/Citations	Compliance Demonstration Requirements
22. Premises Requirements	P 189-0061, 62 & 63 Part X.C.	<p>The Permittee shall institute and comply with the following conditions at all times:</p> <ul style="list-style-type: none"> i. Sufficient wind-sheltered storage capacity for refuse, residual particulates and bottom ash on site and provision for landfill disposal of same must be provided for, maintenance of refuse collection service in affected communities in the event of strike, malfunction of air pollution control equipment, or other interruption. ii. All vehicular traffic areas on the premises shall be paved. iii. Transfer, storage, and transportation at and from the premises, of materials collected from the furnace/boiler grates and air pollution control equipment shall be transferred in a covered container or other method equally effective in preventing the material from becoming airborne during storage and transfer. iv. The Permittee shall implement a clean up program on the premises whereby, at least once per day, any refuse, MSW or other materials will be collected. v. The public shall not have uncontrolled access to any portion of this premises. vi. The Permittee shall be in compliance with the requirements of §22a-174-18(b) of the Regulations, requirements which pertain to the control of fugitive dust emissions.
23. Enforcement considerations	P 189-0061, 62 & 63 Part XI.	<ul style="list-style-type: none"> i. CEM data, stack testing data and the results of any monitoring and testing of source parameters and emission rates shall, unless otherwise specified in this permit, be used to determine compliance with this permit. ii. Pursuant to CGS §22a-6b-602, the Permittee is hereby advised of its liability for assessment of civil penalties for any violation of P 015-0097, 98 & 99. iii. Notwithstanding any other provision of this permit, for the purpose of determining compliance or establishing whether a Permittee has violated or is in violation of any permit condition, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information.
24. Federal Plan Requirements for Small Municipal Waste Combustion Units	40 CFR Part 62 Subpart JJJ	The Permittee shall comply with the Federal Plan Requirements for Small Municipal Waste Combustion Units in accordance with 40 CFR Part 62 Subpart JJJ until the Connecticut plan is approved by EPA and in effect.

Section III: Applicable Requirements and Compliance Demonstration

D. WORK PRACTICE STANDARDS AND OPERATION AND MAINTENANCE (O&M) PRACTICES

Table III.D: Work Practice Standards and Operation and Maintenance (O&M) Practices		
Emissions Unit	Applicable Regulatory References/Citations	Work/O&M Practice Requirements
EMU-001, EMU-002; EMU-003	RCSA §22a-174-7 (a) - (d)	<ol style="list-style-type: none"> 1. The Permittee shall comply with the following: <ol style="list-style-type: none"> i. Equipment or methods which control air pollutant emissions from a stationary source and which are necessary to the operation of such stationary source in compliance with applicable emission standards and regulations shall be maintained in operation at all times that the stationary source is in operation or emitting air pollutants. This includes instruments required by permit, order, or regulation which measure those source operating parameters which affect air pollutant emissions, air pollution control equipment, or other instruments which measure meteorological data required by permit, order or regulation. ii. No person shall deliberately shut down any such control equipment, method or other instruments specified in subsection 22a-174-7(a) while the source is in operation except for such necessary maintenance as cannot be accomplished when the stationary source itself is not in operation and is not emitting air pollutants. iii. In the event of breakdown, failure, or deliberate shut down of any control equipment, method, or other instrument specified in subsection 22a-174-7(a) during which time the stationary source will be in operation, all reasonable measures shall be taken to assure resumption of the control equipment as soon as possible. Due diligence shall be exercised to minimize emissions while the control equipment or method is inoperative. In the event such shutdown of control equipment or methods is expected or may reasonably be expected to continue for longer than 72 hours, and if the source is to be operated at any time during that period, the Commissioner shall be notified promptly except that for a resource recovery facility such time period shall be 24 hours. Such notice shall include, but is not limited to, the following: <ol style="list-style-type: none"> a. Identification of the specific equipment or instrument taken out, or to be taken out, of service as well as its location, and, where applicable, registration or permit number; b. The expected length of time that the air pollution control equipment or instrument will be out of service; c. The nature and quantity of emissions of air pollutants likely to be emitted during the shutdown period; d. Measures such as the use of off shift labor and equipment that will be taken to minimize the length of the shutdown period; e. The reasons that it would be impossible or impractical to shut down the stationary source operation during the maintenance period. iv. The Commissioner may attach conditions to the operation of the source during the period of shutdown or breakdown.

Section IV: Compliance Schedule

THERE IS NO COMPLIANCE SCHEDULE.

TABLE IV: COMPLIANCE SCHEDULE				
Emissions Unit	Applicable Regulations	Steps required for achieving compliance (Milestones)	Date by which each step is to be completed	Dates for monitoring, record keeping, and reporting

Section V: State Enforceable Terms and Conditions

Only the Commissioner of the Department of Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

- A.** This permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Environmental Protection or any federal, local or other state agency. Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- B.** Nothing in this permit shall affect the Commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the Commissioner.
- C.** Odors: The Permittee shall operate in compliance with the regulations for odor control as set forth in RCSA Section 22a-174-23.
- D.** Noise: The Permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA 22a-69-1 through 22a-69-7.4, inclusive.
- E.** Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA 22a-174-29.
- F.** Open Burning: The Permittee is prohibited from conducting open burning, except as may be allowed by CGS 22a-174(f).
- G.** Fuel Sulfur Content: The Permittee shall not use #2 heating oil that exceeds three-tenths of one percent sulfur by weight as set forth in CGS Section 16a-21a.

Section VI: Permit Shield

NO PERMIT SHIELD HAS BEEN GRANTED.

Section VII: Title V Requirements

The Administrator of the United States Environmental Protection Agency and the Commissioner of Environmental Protection have the authority to enforce the terms and conditions contained in these sections.

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

The date of submission to the Commissioner of any document required by this permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" means calendar day. Any document or action which is required by this permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the Commissioner under this permit shall, unless otherwise specified in writing by the Commissioner, be directed to: Office of the Assistant Director; Compliance & Field Operations Division; Bureau of Air Management; Department of Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the U. S. Environmental Protection Agency shall be in a computer-readable format and addressed to: Director, Air Compliance Program; Attn: Air Compliance Clerk; Office of Environmental Stewardship; US EPA, Region 1; One Congress Street; Suite 1100 (SEA); Boston, MA 02114-2023.

B. CERTIFICATIONS [RCSA § 22a-174-33(b)]

In accordance with Section 22a-174-33(b) of the RCSA, any report or other document required by this Title V permit and any other information submitted to the Commissioner or Administrator shall be signed by an individual described in Section 22a-174-2a(a) of the RCSA, or by a duly authorized representative of such individual. Any individual signing any document pursuant to Section 22a-174-33(b) of the RCSA shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in Section 22a-174-2a(a)(5) of the RCSA:

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute.”

C. SIGNATORY RESPONSIBILITY [RCSA § 22a-174-2a(a)]

If an authorization pursuant to Section 22a-174-2a(a) of the RCSA is no longer effective because a different individual or position has assumed the applicable responsibility, a new authorization satisfying the requirements of Section 22a-174-2a(a)(2) of the RCSA shall be submitted to the Commissioner prior to or together with the submission of any applications, reports, forms, compliance certifications, documents or other information which is signed by an individual or a duly authorized representative of such individual pursuant to Section 22a-174-2a(a)(2) of the RCSA.

Section VII: Title V Requirements

D. ADDITIONAL INFORMATION [RCSA § 22a-174-33(j)(1)(X)]

The permittee shall submit additional information in writing, at the Commissioner's request, within thirty (30) days of receipt of notice from the Commissioner or by such other date specified by the Commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending the permit or to determine compliance with the permit.

In addition, within fifteen days of the date the permittee becomes aware of a change in any information submitted to the Commissioner under this permit or of any change in any information contained in the application, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the changed, corrected, or omitted information to the Commissioner.

E. MONITORING REPORTS [RCSA § 22a-174-33(o)(1)]

A permittee, required to perform monitoring pursuant this permit, shall submit to the Commissioner, on forms prescribed by the Commissioner, written monitoring reports on January 30 and July 30 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

1. Each deviation caused by upset or control equipment deficiencies; and
2. Each deviation of a permit requirement that has been monitored by the monitoring systems required under this permit, which has occurred since the date of the last monitoring report; and
3. Each deviation caused by a failure of the monitoring system to provide reliable data.

F. PREMISES RECORDS [RCSA § 22a-174-33(o)(2)]

Unless otherwise required by this permit, the permittee shall make and keep records of all required monitoring data and supporting information for at least five (5) years from the date such data and information were obtained. The permittee shall make such records available for inspection at the site of the subject source, and shall submit such records to the Commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

1. The type of monitoring or records used to obtain such data, including record keeping;
2. The date, place, and time of sampling or measurement;
3. The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
4. The date(s) on which analyses of such samples or measurements were performed;
5. The name and address of the entity that performed the analyses;
6. The analytical techniques or methods used for such analyses;
7. The results of such analyses;

Section VII: Title V Requirements

F. PREMISES RECORDS, continued [RCSA § 22a-174-33(o)(2)]

8. The operating conditions at the subject source at the time of such sampling or measurement; and
9. All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

G. PROGRESS REPORTS [RCSA § 22a-174-33(q)(1)]

The permittee shall, on January 30 and July 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner a progress report on forms prescribed by the Commissioner, and certified in accordance with Section 22a-174-2a(a)(5) of the RCSA. Such report shall describe the permittee's progress in achieving compliance under the compliance plan schedule contained in this permit. Such progress report shall:

1. Identify those obligations under the compliance plan schedule in the permit which the permittee has met, and the dates on which they were met; and
2. Identify those obligations under the compliance plan schedule in this permit which the permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the permittee expects to meet them.

Any progress report prepared and submitted pursuant to Section 22a-174-33(q)(1) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

H. COMPLIANCE CERTIFICATIONS [RCSA § 22a-174-33(q)(2)]

The permittee shall, on January 30 of each year, or on a more frequent schedule if specified in this permit, submit to the Commissioner, a written compliance certification certified in accordance with Section 22a-174-2a(a)(5) of the RCSA and which includes the information identified in Title 40 CFR 70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to Section 22a-174-33(q)(2) of the RCSA shall be simultaneously submitted by the permittee to the Administrator.

I. PERMIT DEVIATION NOTIFICATIONS [RCSA § 22a-174-33(p)]

Notwithstanding Subsection D of Section VII of this permit, the permittee shall notify the Commissioner in writing, on forms prescribed by the Commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

1. For any hazardous air pollutant, no later than twenty-four (24) hours after such deviation commenced; and
2. For any other regulated air pollutant, no later than ten (10) days after such deviation commenced.

J. PERMIT RENEWAL [RCSA § 22a-174-33(j)(1)(B)]

All of the terms and conditions of this permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with Sections 22a-174-33(g), -33(h), and -33(i) of the RCSA.

Section VII: Title V Requirements

K. OPERATE IN COMPLIANCE [RCSA § 22a-174-33(j)(1)(C)]

The permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

L. COMPLIANCE WITH PERMIT [RCSA § 22a-174-33(j)(1)(G)]

This permit shall not be deemed to:

1. preclude the creation or use of emission reduction credits or the trading of such credits in accordance with Sections 22a-174-33(j)(1)(I) and 22a-174-33(j)(1)(P) of the RCSA, provided that the Commissioner's prior written approval of the creation, use, or trading is obtained;
2. authorize emissions of an air pollutant so as to exceed levels prohibited under 40 CFR Part 72;
3. authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
4. impose limits on emissions from items or activities specified in Sections 22a-174-33(g)(3)(A) and (B) of the RCSA unless imposition of such limits is required by an applicable requirement.

M. INSPECTION TO DETERMINE COMPLIANCE [RCSA § 22a-174-33(j)(1)(M)]

The Commissioner may, for the purpose of determining compliance with the permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under the permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

N. PERMIT AVAILABILITY

The permittee shall have available at the facility at all times a copy of this Title V Operating Permit.

O. SEVERABILITY CLAUSE [RCSA § 22a-174-33(j)(1)(R)]

The provisions of this permit are severable. If any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the remainder of this permit and the application of such provision to other circumstances shall not be affected.

P. NEED TO HALT OR REDUCE ACTIVITY [RCSA § 22a-174-33(j)(1)(T)]

It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

Section VII: Title V Requirements

Q. PERMIT REQUIREMENTS [RCSA § 22a-174-33(j)(1)(V)]

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the permittee's obligation to comply with this permit.

R. PROPERTY RIGHTS [RCSA § 22a-174-33(j)(1)(W)]

This permit does not convey any property rights or any exclusive privileges. This permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including Section 4-181a(b) of the Connecticut General Statutes and Section 22a-3a-5(b) of the RCSA. This permit shall neither create nor affect any rights of persons who are not parties to this permit.

S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA § 22a-174-33(o)(3)]

The permittee shall, contemporaneously with making a change authorized by this permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA § 22a-174-33(r)(2)]

The permittee may engage in any action allowed by the Administrator in accordance with 40 CFR 70.4(b)(12)(i) to (iii)(B) inclusive, and 40 CFR 70.4(b)(14)(i) to (iv), inclusive without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit modification, minor permit modification or revision provided such action does not:

1. constitute a modification under 40 CFR 60, 61 or 63,
2. exceed emissions allowable under the subject permit,
3. constitute an action which would subject the permittee to any standard or other requirement pursuant to 40 CFR 72 to 78, inclusive, or
4. constitute a non-minor permit modification pursuant to Section 22a-174-2a(d)(4) of the RCSA.

At least seven (7) days before initiating an action specified in Section 22a-174-33(r)(2)(A) of the RCSA, the permittee shall notify the Administrator and the Commissioner in writing of such intended action.

U. INFORMATION FOR NOTIFICATION [RCSA § 22a-174-33(r)(2)(A)]

Written notification required under Section 22a-174-33(r)(2)(A) of the RCSA shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The permittee shall thereafter maintain a copy of such notice with the Title V permit. The Commissioner and the permittee shall each attach a copy of such notice to their copy of the permit.

Section VII: Title V Requirements

V. TRANSFERS [RCSA § 22a-174-2a(g)]

No person other than the permittee shall act or refrain from acting under the authority of this permit unless this permit has been transferred to another person in accordance with Section 22a-174-2a(g) of the RCSA.

The proposed transferor and transferee of a permit shall submit to the Commissioner a request for a permit transfer on a form provided by the Commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The Commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS Section 22a-6m.

W. REVOCATION [RCSA § 22a-174-2a(h)]

The Commissioner may revoke this permit on his own initiative or on the request of the permittee or any other person, in accordance with Section 4-182c of the Connecticut General Statutes, Section 22a-3a-5(d) of the RCSA, and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The permittee requesting revocation of this permit shall state the requested date of revocation and provide the Commissioner with satisfactory evidence that the emissions authorized by this permit have been permanently eliminated.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this permit if the Administrator has determined that the Commissioner failed to act in a timely manner on a permit renewal application.

This permit may be modified, revoked, reopened, reissued, or suspended by the Commissioner, or the Administrator in accordance with Section 22a-174-33(r) of the RCSA, Connecticut General Statutes Section 22a-174c, or Section 22a-3a-5(d) of the RCSA.

X. REOPENING FOR CAUSE [RCSA § 22a-174-33(s)]

This permit may be reopened by the Commissioner, or the Administrator in accordance with Section 22a-174-33(s) of the RCSA.

Y. CREDIBLE EVIDENCE

Notwithstanding any other provision of this permit, for the purpose of determining compliance or establishing whether a permittee has violated or is in violation of any permit condition, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information.